Case No. 19-56004

In the United States Court of Appeals for the Ninth Circuit

STEVEN RUPP, et al., *Plaintiffs-Appellants*,

V.

XAVIER BECERRA, in his official capacity as Attorney General of the State of California, Defendant-Appellee.

> On Appeal from the United States District Court for the Central District of California Case No. 8:17-cv-00746-JLS-JDE

APPELLANTS' EXCERPTS OF RECORD VOLUME XVI OF XXII

C.D. Michel
Sean A. Brady
Anna M. Barvir
MICHEL & ASSOCIATES, P.C.
180 East Ocean Boulevard, Suite 200
Long Beach, CA 90802
(562) 216-4444
cmichel@michellawyers.com

Attorneys for Plaintiffs-Appellants

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Under Federal Rules of Appellate Procedure for the Ninth Circuit, rule 30-1, Plaintiffs-Appellants Steven Rupp, Steven Dember, Cheryl Johnson, Michael Jones, Christopher Seifert, Alfonso Valencia, Troy Willis, Dennis Martin, and California Rifle & Pistol Association, Incorporated, by and through their attorney of record, confirm to the contents and form of Appellants' Excerpts of Record.

Date: January 27, 2020 MICHEL & ASSOCIATES, P.C.

s/ Sean A. Brady

Sean A. Brady
Attorneys for Plaintiffs/Appellants
Steven Rupp, et al.

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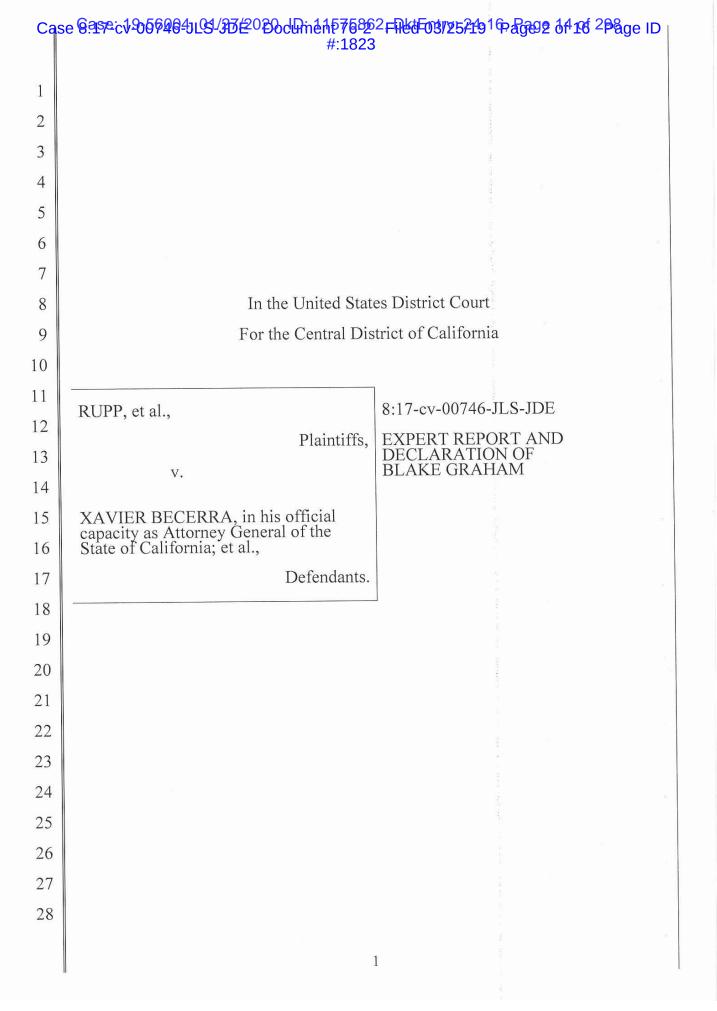
CERTIFICATE OF SERVICE

I hereby certify that on January 27, 2020, an electronic PDF of APPELLANTS' EXCERPTS OF RECORD, VOLUME XVI OF XXII was uploaded to the Court's CM/ECF system, which will automatically generate and send by electronic mail a Notice of Docket Activity to all registered attorneys participating in the case. Such notice constitutes service on those registered attorneys.

Date: January 27, 2020 MICHEL & ASSOCIATES, P.C.

s/ Sean A. Brady
Sean A. Brady
Attorneys for Plaintiffs-Appellants
Steven Rupp, et al.

Exhibit 2



BACKGROUND AND QUALIFICATIONS

1. I am a Special Agent Supervisor for the California Department of Justice, Bureau of Firearms.

- 2. I received a Bachelor of Science degree in May 1992 in Criminal Justice at the California State University Sacramento. My coursework included forensics, corrections, and a number of classes in criminal justice-related topics.
- 3. Since 1994, I have worked as either an investigator for the California Department of Alcoholic and Beverage Control (ABC), or as a Special Agent for the California Department of Justice (DOJ). My job responsibilities in all of these positions have increasingly required the recovery, investigation, and identification of firearms, the ammunition used for those firearms, and the magazines used for feeding ammunition for such firearms.
- 4. My work as an Investigator for ABC between 1994 and 1999 included the recovery of firearms, magazines and ammunition.
- 5. Between 1999 and 2002, I worked as a Special Agent for DOJ, and was assigned to the Violence Suppression Program in the Bureau of Narcotic Enforcement. In this job, I investigated violent crimes and various violations occurring at California gun shows. As a gun show enforcement agent, I attended gun shows in the San Francisco Bay Area to monitor, and if necessary, seize, firearms, ammunition, and magazines sold illegally to felons, parolees, and probationers.
- 6. From October 2002 to the present, I have been a Special Agent and Special Agent Supervisor, for the DOJ's Bureau of Firearms (BOF). In this capacity, I am assigned to recover firearms from prohibited individuals, monitor gun shows for illegal activities, conduct surveillance on gun dealers suspected of illegal activity, and investigate illegal trafficking of firearms, manufacturing of

7. Since 2008, I have been responsible for reviewing handguns that are submitted by manufacturers for inclusion in California's roster of handguns certified

for sale. A copy of the roster can be found on the DOJ website: http://certguns.doj.ca.gov/.

- 8. In my career I have attended at least 40 gun shows and have become very knowledgeable on current laws pertaining to the sales of firearms, assault weapons identification, assault weapons registration, the Automated Firearms System (AFS), ammunition, and ammunition containers—including large-capacity magazines (LCMs)—in the State of California.
- 9. I have been trained and qualified to carry several different types of firearms, including: Glock Model 17 (9 mm semiautomatic pistol), multiple Glock .40 caliber semi automatic pistols, Heckler & Koch MP5 (9 mm submachine gun), Smith & Wesson, Model 60 (.38 Special revolver), multiple .45 caliber semiautomatic pistols, and a Colt, Model M4 (5.56 mm machine gun). I have access to other Department-owned handguns, shotguns, submachine guns, machine guns, rifles, shotguns and 40 mm "less lethal" launchers.
- 10. Throughout my career, I have conducted training programs in the identification and handling of firearms. I have also trained other Special Agents of BOF on assault weapons and firearms identification. I also have given firearms identification classes to members of the multiple District Attorney's offices in the State of California.
- 11. I have also completed at least 15 firearms training courses since 1994. These courses included the assembly and use of specific firearms, cartridge composition (bullet, the propellant, and the casing), common calibers used by law enforcement, and training on rifle and handgun ammunition. I have been certified

as a California Peace Officer Standards and Training (POST) approved Firearms Instructor/Rangemaster since 2002.

- 12. During the course of my career and training I have become proficient in the use and disassembly of various revolvers, pistols, submachine guns, shotguns, and rifles. I have made or assisted in the arrest of at least thirty persons for violations involving illegal weapons possession. In the course of my employment I have participated in excess of thirty search warrants which involved the illegal possession of firearms.
- 13. I have been qualified as an expert witness regarding the use of firearms in 15 cases in both federal and state court since 2007.

DISCUSSION

LEGISLATION LIMITING ASSAULT WEAPONS.

- 14. I am aware of the current state and former federal laws banning the sale assault weapons in California.
- 15. California's Roberti-Roos Assault Weapon Act (AWCA) prohibits the sale of assault weapons and ownership of unregistered assault weapons. The AWCA prohibits certain assault weapons as defined by their make and model. The lists of prohibited weapons are in Penal Code section 30510 and California Code of Regulations, Title 11, Division 5, Chapter 40, Section 5499 (Category 1 and Category 2 weapons). Some of the firearms listed in Penal Code section 30510 are weapons prohibited by the federal assault weapons ban in effect from 1994-2004. In general, the firearms listed in Penal Code section 30510 and the additional ones listed in the regulations could be considered semiautomatic versions of military

weapons.1 While it is not legally necessary for a Category 1 or Category 2 assault weapon to have certain features, they usually have one more of the features listed in Penal Code Section 30515 (Category 3 definition language). Probably the most common feature of prohibited assault weapons is the pistol grip. The next most common features are probably adjustable stocks (folding or telescoping) and flash suppressors.

16. The AWCA also prohibits certain weapons as defined by their features. Penal Code section 30515 defines an "assault weapon" to include "a semiautomatic, centerfire rifle that does not have a fixed magazine but has any one" of certain features.

ASSAULT WEAPON FEATURES²

- 17. I understand that Plaintiffs in this case have challenged California's prohibition on assault weapons based on features identified in Penal Code section 30515(a)(1)(A-C), (a)(1)(E-F), and (a)(3):
- 15 PC 30515.

- (a) Notwithstanding Section 30510, "assault weapon" also means any of the following:
- (1) A semiautomatic, centerfire rifle that does not have a fixed magazine but has any one of the following:
- (A) A pistol grip that protrudes conspicuously beneath the action of the weapon.
- 19 (B) A thumbhole stock.
 - (C) A folding or telescoping stock.

Article 2, § 5471 (Exhibit A).

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The history of assault rifles, their military features, and their evolution from military weapons have been well documented. See AR-15/M16 Sourcebook, by Long (AG00003799-325); Shooter's Bible: Guide to AR-15S by Howlett (AG00003827-3836); Special Warfare: Special Weapons by Dockery (AG00003839-3891); Black Rifle II by Bartocci (AG00003896-3952); The Militarization of the U.S. Civilian Firearms Market by the Violence Policy Center (AG00003955-40060); Legends and Realities by Shilin and Cutshaw (AG00004008-4040); Assault Weapons Profile by the U.S. Department of Treasury (AG00004311-4337); Small Arms of the World by Ezell (AG00004973-AG00005040); Buyer's Guide to Assault Weapons by Peterson (AG00005059-5070).

These features have been defined for purposes of assault weapon registration in California Code of Regulations, Title 11, Division 5, Chapter 39,

(E) A flash suppressor. (F) A forward pistol grip.

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- (3) A semiautomatic, centerfire rifle that has an overall length of less than 30 inches.
- "Centerfire" refers to the type of ammunition the firearms were built to fire. This excludes many semiautomatic rimfire (usually .22 caliber) rifles that might have had one or more listed features. Centerfire ammunition is more powerful than rimfire ammunition.
- 19. A "pistol grip that protrudes conspicuously beneath the action of the weapon" is a grip that allows for a pistol-style grasp in which the web of the trigger hand (between the thumb and index finger) can be placed beneath or below the top of the exposed portion of the trigger while firing. In my experience, this feature is the most prevalent feature of assault rifles prohibited under the AWCA. Pistol grips are used in most modern military machine guns and semiautomatic rifles. The designers of military-style firearms are including this feature more and more. A pistol grip on an assault rifle enhances the ergonomics of the weapon. A shooter using an assault rifle without a pistol grip may shoot less accurately if the shooter's trigger hand is in an awkward position for a significant amount of time. An assault rifle lacking a pistol grip would not necessarily be less accurate than an assault rifle with a pistol grip.
- 20. A "thumbhole stock" is a stock with a hole that allows the thumb of the trigger hand to penetrate into or through the stock while firing. It allows for a grip similar to that offered by a pistol grip. Below is a photograph showing a thumbhole stock on a rifle.



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21. A "telescoping stock" is a stock that is shortened or lengthened by allowing one section to telescope into another portion. On AR-15 style firearms, the buffer tube or receiver extension acts as the fixed part of the stock on which the telescoping butt stock slides or telescopes. A "folding stock" is a stock that is hinged in some fashion to the receiver to allow the stock to be folded next to the receiver to reduce the overall length of the firearm. A folding stock or telescoping stock that still allows the shooter to fire the rifle while the stock is folded or shortened will have a tactical advantage because it is more versatile. The tactical advantage provided by a telescoping or folding stock include decreased overall length of the rifle by the shooter if desired for concealability. For example, when law enforcement personnel conduct room to room searches of a building, they would not want to give away their locations. More compact weapons with folding or telescoping stocks may maintain the advantage of surprise. Semiautomatic assault weapons deployed by law enforcement with extremely long overall lengths may be seen by antagonists who mean to do harm to law enforcement. Telescoping or folding stocks also allow for easier transportation and storage of the weapon and to more quickly allow the user to adjust the weapon for a better fit, but these are secondary considerations. Subjects intent on shooting one or more persons may have a tactical advantage by using a weapon with a shorter overall length. This tactical advantage described above for law enforcement can also be used by a shooter wishing to remain undetected for as long as possible. A weapon with a shorter overall length could also permit the shooter to smuggle the weapon undetected (by, for example, hiding the weapon in a backpack or bag) or to hide in the crowd without telegraphing the shooter's location.3 A smaller weapon can also be concealed on the shooter's person underneath loose or bulky clothing.

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³ Some manufacturers design and market certain backpacks specifically to carry assault rifles with folding or telescoping stock while remaining

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- forward of the trigger. Many modern military machine guns, submachine guns and assault rifles worldwide have built in forward pistol grips or locations that allow for forward pistol grips to be attached. This feature can aid the shooter by offering an optional grip location on the rifle for the shooter's non-trigger hand.
- 24. Overall, in my experience, the challenged features described in Penal Code section 30515 on assault rifles may aid the shooters in being potentially more effective and efficient while shooting people. Semiautomatic assault rifles are generally modelled after successful military machine guns and submachine guns.⁴

See sources cited in footnote 1.

inconspicuous. The 5.11 Tactical COVRT M4 Gun Bag with the "Roll-down Assault Compartment" is one example. See http://www.armtactical.com/5-11tactical-covrt-m4-gun-bag.html; https://www.youtube.com/watch?v=EaZ7s5mtA o; see also https://www.tacticallife.com/gear/6-discreet-carry-bags/.

- 25. Generally, weapons currently deemed to be Assault Weapons under California law have had a similar version issued to a military or police force somewhere in the world. The main difference between those military or police forces machine guns and California assault weapons are that defined California assault weapons are semi automatic. In some cases, military or police forces might issue semi automatic rifles that are functionally the same as defined California assault weapons in terms of "rate of fire" or "capacity for firepower."
- 26. Pistol grip that protrudes beneath the action of the weapon, thumbhole stock, and forward pistol grip may provide the shooter increased physical control of the rifle. These features also provide increased ergonomics, which can enhance more accurate rapid shooting.
- 27. Folding or telescoping stock and a rifle with overall length under 30 inches aid in the concealability of the weapon.
- 28. A flash suppressor may increase efficiency while the shooter is firing since the shooter's vision is less likely to be impaired by excess flash in low light settings.
- 29. Militaries across the world have incorporated these features into their armed forces firearms for many years.
- 30. The photo below depicts a Sturm Ruger, Mini-14/Ranch Rifle with no prohibited features listed in Penal Code section 30515. It is a semiautomatic center fire rifle that is not an assault weapon. It is effectively "featureless" in terms of Penal code section 30515. These types of rifles are currently legal for sale in California and can be lawfully transferred and possessed by California residents who follow state and federal laws. It has a traditional wooden stock, no pistol grip and no muzzle device:



31. The semi automatic centerfire rifle depicted below is a Sturm Ruger, Mini-14/Ranch Rifle with a folding stock, pistol grip and flash suppressor on the end of the barrel. These types of rifles are currently not legal for sale in California and cannot be lawfully transferred by California residents.5



32. Assault Rifles, as defined under Penal Code Section 30510, typically will have one or more features that are listed in Penal Code Section 30515 (pistol grip, etc.).

ASSAULT RIFLES HAVE HIGHER CAPACITY FOR FIREPOWER.

33. Assault rifles, as defined by California law, must be semiautomatic. One round per pull of the trigger will be fired as long as the rifle has available ammunition in its magazine. LCMs for assault weapons are present in California. As of this writing, certain persons can still legally possess LCMs.6 Firearms-prohibited persons such as felons, and persons subject to a restraining order, gun violence restraining order, or certain mental health statuses may also choose to

⁶California's prohibition on LCMs has been stayed, in part, by a federal court.

⁵ Although California residents who registered a rifle similar to the one depicted below during the one year (2000) registration window can still lawfully possess a firearm like this.

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acquire LCMs for use in illegally possessed assault weapons. Non-prohibited persons may choose to use assault weapons illegally in conjunction with LCMs. Some LCMs can hold 20, 30, 50, 75 or 100 rounds of ammunition at a time. A person intent on doing harm to citizens or law enforcement will often pair assault weapons and multiple LCMs together. This individual will have a lot of available firepower. Many rounds can be fired quickly and the assault rifle can be rapidly reloaded with the magazines on hand.

34. Assault rifles as defined in Penal Code section 30515 are often used with rifle rounds that are associated with increased lethality. The United States military uses various centerfire rifle rounds (5.56 mm and 7.62 x 51, for example) in multiple weapons systems. Some California assault rifles are capable of firing the same centerfire rounds as these military weapons and could have the same high capacity for firepower as the military weapons. In my experience being around the California gun industry and gun culture for nearly 20 years, rounds most commonly used with assault rifles are rifle-caliber rounds such as .223 caliber, 5.56 mm, or 7.62×39 mm. These rounds will typically defeat normal bullet resistant body armor used by law enforcement. While rifle resistant plates can be added to most law enforcement body armor, the rifle plates are not going to block or resist riflecaliber rounds fired at all angles. Some rifle rounds are strong enough to defeat even the available rifle resistant plates available to law enforcement. Some assault weapons are chambered in traditional pistol caliber rounds such as 9mm, .40 and .45 calibers. Handgun caliber bullets fired from assault weapons chambered in these calibers may or may not be stopped by traditional law enforcement body armor. Generally, the longer the barrel the faster the bullet will travel. A rifle and handgun both shooting the same ammunition may have different results in terms of penetrating body armor of equal protection levels. The shorter barrel lengths usually associated with a normal semi automatic handgun might be 3-5 inches long. By state and federal law, a rifle must have at least a 16-inch long barrel. The rifle

barrel being at least three times longer than most semiautomatic handgun barrels leads to the bullet leaving the barrel at a higher rate of speed (or higher muzzle velocity). In general, the faster the bullet is traveling, the more likely it is to defeat body armor.

USE OF ASSAULT WEAPONS IN MASS SHOOTINGS.

- 35. Through the course of my career, I am familiar with the use of assault weapons by subjects intending to do harm to civilians and law enforcement.
- 36. Often assault weapons are paired with LCMs during these crimes by the suspects. LCMs are ammunition feeding devices that can hold more than ten rounds, and sometimes up to 100 rounds, of ammunition.
- 37. Semiautomatic assault weapons when loaded with LCMs enable a shooter to potentially fire more than 10 rounds without the need for the shooter to reload the weapon.
- 38. Because LCMs enable a shooter to fire repeatedly without needing to reload every 10 rounds, they significantly increase a shooter's ability to kill and injure large numbers of people quickly.
 - 39. Assault weapons have been a popular weapon used in several mass shootings in California and elsewhere.
- 40. Based on my research, all of the shootings listed below involved persons who shot and wounded and/or killed one or more persons, including peace officers, while using assault weapons.
 - a. On January 17, 1989, Patrick Purdy, shot and killed 5 and wounded 32 others at the Cleveland Elementary School in Stockton, California. He used an AK-47 style rifle and LCMs in the shooting. The Roberti-Roos Assault Weapon Control Act of 1989 was signed after this shooting.
 - b. On January 9, 2005, Andres Raya used a LCM and illegal assault weapon to shoot and kill Police Sgt. Howard Stevenson in Ceres, California.

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- c. On June 15, 2008, Marco Topete used an assault rifle and LCM to shoot and kill Yolo County Sheriff's Deputy Tony Diaz after a traffic stop near Dunnigan, California.
- d. On February 25, 2010, Ricky Liles, used multiple weapons (including an assault weapon) and LCMs to shoot and kill two law enforcement officers and wounded one other in Minkler, California.
- e. On July 20, 2012, James Holmes used an assault weapon and LCMs to kill 12 people and wound 70 others in a movie theater in Aurora, Colorado.
- f. On December 14, 2012, Adam Lanza used LCMs and multiple firearms (including an assault weapon) to kill 20 children and six adults at Sandy Hook Elementary School in Newtown, Connecticut.
- g. On June 7, 2013, John Zawarhi—who was previously denied purchase of a firearm by DOJ—used a home-built AR-15 rifle and LCMs to kill his father and brother at their family home, and then kill and wound others at the Santa Monica, California Community College.
- h. On December 2, 2015, Syed Farook and his wife, Tashfeen Malik, used assault weapons and LCMs in killing 14 people and wounding 22 others at the Inland Regional Center in San Bernardino, California.
- On June 12, 2016, Omar Mateen used an assault rifle and LCMs to shoot and kill 49 people and wound 53 others inside a nightclub in Orlando, Florida.
- j. On July 7, 2016, Micah Johnson used an assault rifle and a LCM to shoot and kill five police officers and wound nine others in Dallas, Texas.
- k. On July 17, 2016, Gavin Long used an assault rifle and LCMs to shoot and kill three police officers and wound three other officers in Baton Rouge, Louisiana.

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- On October 1, 2017, Stephen Paddock used assault rifles and LCMs to fire over 1,000 rounds on concertgoers at an outdoor music festival in Las Vegas, Nevada, killing 58 people and wounding more than 500 others. To date, this is the deadliest mass shooting in U.S. history.
 m. On October 3, 2018, Frederick Hopkins used an assault rifle in
 - m. On October 3, 2018, Frederick Hopkins used an assault rifle in Florence, South Carolina to shoot and kill two law enforcement officers. Six other officers were also shot.

ASSAULT RIFLES ARE SUITABLE FOR LAW ENFORCEMENT USE.

- 41. Assault rifles are suitable for law enforcement use. As depicted above, there are many instances that law enforcement and civilians have been hurt and killed by subjects using assault weapons. Law enforcement needs to have equal or better weapons than those subjects they are confronting so that they are not outgunned by criminals with assault rifles.
- 42. Unlike civilians, law enforcement personnel are often required to enter into dangerous situations to take a shooter into custody. Law enforcement personnel must often affirmatively put themselves in dangerous situations to subdue shooters or other criminal suspects or to protect civilians.
- 43. Law enforcement personnel undergo regular, specialized training to safely and effectively use assault weapons. Each round fired by law enforcement has the potential to cause criminal and/or civil ramifications for individuals employed in this field and their agency they work for. We are trained to consider the backdrop (area behind whatever is being aimed at) to make sure persons or property are not needlessly injured or damaged. Regular qualifications with various duty firearms are standard procedure for law enforcement. These qualifications can sometimes include varied distances from the officer to the target, partially concealed targets, and scenarios in which the best option available to the officer is to not shoot the target. Verbal commands and less lethal options are among the options employed by law enforcement in conjunction with potentially lethal force.

44. Because Assault Weapons have been used in mass shootings that have occurred both in and outside of California for several years, the State of California has chosen to restrict access to them. It is my opinion that the provisions of California Assault Weapons Control Act challenged by plaintiffs in this case enhances public safety by limiting prohibited weapons that are unreasonably dangerous for unrestricted civilian use and are often used by those who intend on committing crimes such as mass shootings. I declare under penalty of perjury that the foregoing is true and correct. Executed on October 25, 2018 at Sacramento, California. Blake Graham Expert Report and Decl. of Blake Graham (17-cv-00746-JLS-JDE)

Exhibit 3

- 3. Pursuant to my current assignment, I received training from the Bureau of Alcohol, Tobacco, Firearms and Explosives (BATFE) on illegal firearms trafficking, firearms identification and tracing, undercover operations, hidden compartment identification and recognition, assault weapons, and Federal Firearms laws. I have also received informal training on the above- mentioned subjects from more experienced investigators. I routinely review California Department of Justice (DOJ) and BATFE publications related to firearm identification and transactions. I have attended numerous gun shows and firearms trade expositions. I routinely review Firearms Industry trade publications. I have spoken to hundreds of persons engaged in the business of firearms sales. I have also been involved in numerous investigations of illegally transferred firearms, possession of prohibited weapons including machine guns, assault weapons, and short barrel shotguns and rifles, as well as possession of firearms by prohibited persons. As a result of these investigations, I have seized or participated in the seizure of hundreds of assault rifles and numerous high capacity magazines. I am a court qualified firearms expert and have testified on multiple occasions as such. I have also fired many different firearms including various assault weapons and machine guns for training and court testimony.
- 4. Gun violence is a significant problem in Los Angeles. The LAPD lacks a central database of all firearms related statistics. The statistics set forth below are accumulated by many different entities within the department including the Gun Unit and Robbery Homicide division. Here are some statistics for the past several years regarding gun-related crimes in Los Angeles:

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Year	Total Number of Gunshot Victims
2013	1012
2014	994
2015	1119
2016	1180
2017 (as of 9/6/17)	718

Year	Total Number of "Shots Fired" Calls
2013	2198
2014	2134
2015	2419
2016	2628
2017	N/A

Year	Total Number of Firearms Related Arrests
2013	1225
2014	1153
2015	1265
2016	1509
2017	N/A

5. Not surprisingly given the above statistics, the number of weapons seized both city-wide, and by the gun unit, are high as well. Here are some statistics for the past five years regarding gun-related seizures:

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Year	Total Number of Firearms Booked Citywide
2013	5130
2014	5529
2015	6151
2016	5908
2017 (as of 9/6/17)	4513

6. Statistics regarding assault weapons and machine guns (as define in the California Penal Code) are provided because these guns typically use large-capacity magazines. The LAPD does not keep statistics on the number of assault weapons and machine guns recovered citywide due to the expertise needed to determine whether a weapon is actually an assault weapon or a machine gun. The below statistics represent Assault Weapons / Machine Guns recovered by the Gun Unit only. Citywide numbers are likely higher.

Year	Number of Assault Rifles/Machine Guns recovered by the Gun Unit
2013	123
2014	113
2015	145
2016	89
2017	125

7. With respect to large-capacity magazines specifically, the statistics provided below represent only the seizure of large capacity magazines by the Gun Unit. As with assault rifles, the LAPD does not keep statistics on the number of large-capacity magazines recovered citywide.

Year	Number of Large-Capacity Magazines Recovered by the Gun Unit
2013	601
2014	392
2015	8826 ¹
2016	224
2017	551

8. It is my opinion, based on my training and experience, that assault rifles (as defined by California Penal Code sections 30510 and 30515) pose a greater danger to both police officers and the public than other unrestricted semi-automatic, centerfire rifles with detachable (non-fixed) magazines. What distinguishes Assault Rifles from unrestricted rifles (as described above) is the presence of one or more features enumerated in the California Penal Code including a pistol grip (including a forward pistol grip) or thumbhole stock, adjustable stock, or flash suppressor. These features when attached to a semi-automatic, centerfire rifle with a detachable magazine make that rifle more dangerous to police offices and the public due to an increase in the lethality of the rifle. The purpose of each of these features is to increase the control of the rifle that they are attached too. Increased control leads to the ability of the shooter to fire rounds faster and with more accuracy. Any modification to a firearm that allows a shooter to fire rounds faster with increased accuracy leads to greater potential lethality.

9. The most ubiquitous feature of assault weapons is the pistol grip or thumbhole stock. Modern military battle rifles are almost universally equipped with pistol grips. Modern military battlefield tactics rely on the ability of troops to send, rapidly and accurately, a large number of rounds down range towards enemy positions. Pistol grips and thumbhole stocks provide the combatant with more

¹ This was due to an abnormal seizure regarding a deceased individual at a condominium in the Pacific Palisades.

10. Adjustable stocks also contribute to the control of the rifle in that they allow the shooter to optimize the rifle to their arm length. This increases the shooter's ability to rapidly send rounds down range with increased accuracy. By collapsing the stock, the rifle becomes more concealable potentially allowing a suspect to introduce the firearm into a vulnerable location such a school or workplace with less fear of detection.

- 11. Flash suppressors also contribute to the potential lethality of a rifle. Flash suppressors function to reduce the "flash signature" in the shooter's field of vision in low light conditions. By reducing the effect of the muzzle flash on the shooter's night vision, the shooter can get back on target quicker. The ability to acquire one's sight picture faster allows the shooter to more rapidly deliver rounds to the target with greater accuracy. Many flash suppressors on the market are hybrid designs meant not only to reduce the flash signature of the rifle but to limit barrel rise which increases accuracy.
- 12. By definition, assault rifles are capable of accepting a detachable (non-fixed) magazine. These magazines can hold as many as 100 rounds. Large capacity magazines allow the shooter to fire more rounds at their target(s) before the need to stop and reload. The use of detachable large capacity magazines in conjunction with any semi-automatic or fully automatic rifle makes that rifle more lethal.

- 14. For example, in one of the most brazen crimes ever committed, on February 28, 1997, two heavily armed men robbed a Bank of America in North Hollywood. According to reports that I have read, the bank robbers emptied more than one thousand rounds of ammunition using fully automatic pistol grip equipped machine guns with high-capacity drum magazines (holding 75 to 100 rounds), an AR-15 assault rifle equipped with a pistol grip and converted to file automatically with two high-capacity magazines (holding 100 rounds each), a semi-automatic HK-91 rifle equipped with a pistol grip and several 30-round high-capacity magazines, and armor-piercing bullets. The LAPD officers responding to the scene were outgunned and injured as a result of this incident. Indeed, twelve police officers and eight civilians were injured.
- 15. On August 10, 1999, a white supremacist fired shots into the lobby of the North Valley Jewish Community Center in Granada Hills. According to reports I have read, the shooter was armed with a fully-automatic Uzi machine gun, a semi-automatic pistol, and large capacity magazines. Three children, a teenage counselor, and an office worker were injured.
- 16. On June 7, 2013, a shooter opened fire in and around the campus of Santa Monica College. According to reports that I have read, the shooter was armed with a semi-automatic rifle (similar in type to an AR-15) equipped with a pistol grip,

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1,300 rounds of ammunition, and forty 30-round magazines. Five people were killed and four people were injured.

- 17. On November 1, 2013, a gunman opened fire at the Los Angeles International Airport. According to reports that I have read, the shooter used a Smith & Wesson M&P15 semi-automatic rifle equipped with a pistol grip and loaded with a detachable 30-round large-capacity magazine. The shooter also had five additional 30-round large-capacity magazines and hundreds of rounds of ammunition in his carrying bag. One TSA agent was killed and several other people were injured.
- 18. On December 2, 2015, a married couple targeted a San Bernardino County Department of Public Health event and Christmas party, killing fourteen people and wounding twenty-two others. According to reports that I have read, the shooters were armed with semi-automatic pistols, a Smith & Wesson M&P15 rifle modified to make it fully automatic and equipped with a pistol grip and detachable large capacity magazine, a DPMS A-15 rifle with a pistol grip that was modified to accept a detachable large-capacity magazine, and at least four large-capacity magazines.
- 19. It is my opinion, based on my training and experience, that the above-described attacks would have been less deadly had the shooters not been armed with assault rifles or assault rifles converted to machine guns.
- 20. There are numerous devices on the market that when installed on a semi-automatic rifle, increase the rifle's rate of fire to that of some machine guns. These devices are easily installed on the rifle without special tools or training. Although these "multiburst trigger activators" are unlawful in the state of California, they are widely available in neighboring states and on the internet. The LAPD Gun Unit has encountered an increasing number of these devices in the last several years. Combining a multiburst trigger activator with a rifle equipped with the above-

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27 28 described features increases the lethality of the firearm many fold. This has been illustrated by a mass-shooting in the City of Las Vegas on October 1, 2017.

- 21. According to reports that I have read, a single shooter firing from a 32nd floor hotel window located some distance from a crowded outdoor concert venue was able to shoot to death 58 concert goers and injuring hundreds of others. This was the deadliest mass shooting in modern United States history. Reports about and photos of the gunman's weapons that I have viewed show that he was armed with numerous semi-automatic, centerfire rifles with detachable magazines and equipped with pistol grips. These firearms would meet the definition of an assault rifle if they were possessed within California. It is highly unlikely that this shooter could have inflicted as many casualties as he was able had his rifles not been equipped with features that were designed to help the shooter control his firearms with improved accuracy during rapid fire.
- 22. I have been involved in the seizure of assault weapons that have been converted into machine guns. This process is as simple as "dropping in" a few parts to a more involved process of drilling additional holes in the receiver of the rifle. Once modified in this manner, rifles equipped with the above-described features are indistinguishable from the battlefield rifles used by the world's military forces.
- 23. There is no evidence that assault rifles are "commonly" used for selfdefense. While any firearm including an assault rifle could be used effectively in a self-defense scenario, handguns and shotguns are the more common and preferred choice. Legally sanction use of force including deadly force is commonly understood to be defense against an immediate and proximate threat of physical harm to one's self or others. In other words, the threat needs to be imminent and to some degree up close and personal. This proximity requirement makes a rifle an inappropriate and unnecessary choice of weapon. The evidence cited in articles and by internet bloggers to support the assertion that assault rifles are "commonly" used

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by the public to defend themselves is mostly based on anecdotal evidence as there is no uniformed collection of data on the subject. Many of the anecdotes cited by proponents for the use of assault rifles as defensive weapons involve the mere pointing of the rifle at the suspect who then fled with no shots fired. Pointing a handgun at a suspect would have the same effect. Other anecdotes involve assault rifles used to fend off unarmed suspects. Again, a handgun or shotgun would have the same effect and of course there are numerous non-lethal options available. In many of these scenarios cited the use of deadly force would not have been legally sanctioned. The purpose of deploying a rifle as opposed to a handgun should be based on the fact that the target is beyond the reasonable effective range of a handgun. Other considerations are a need to defeat body armor, fortified concealment, a position of advantage (high ground), or a suspect armed with superior fire power such as a rifle. These are the criteria used by the LAPD when deciding to deploy a rifle. It is highly unlikely that citizens would face a situation where the threat is beyond the effective range of a handgun and certainly not with any great frequency. It is even less likely that the law would view such a distant perceived threat as justifying a use of force at all much less a use of lethal force delivered via a rifle. I do not believe, based on my training and experience, that there are frequent occasions when a member of the public would face threat by an armed suspect wearing body armor or concealed behind a barrier that would defeat handgun ammunition. Absent these factors a handgun, shotgun or non-lethal options should suffice in dealing with the vast majority of self-defense scenarios where force is legally justified.

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I declare under penalty of perjury that the foregoing is true and correct.

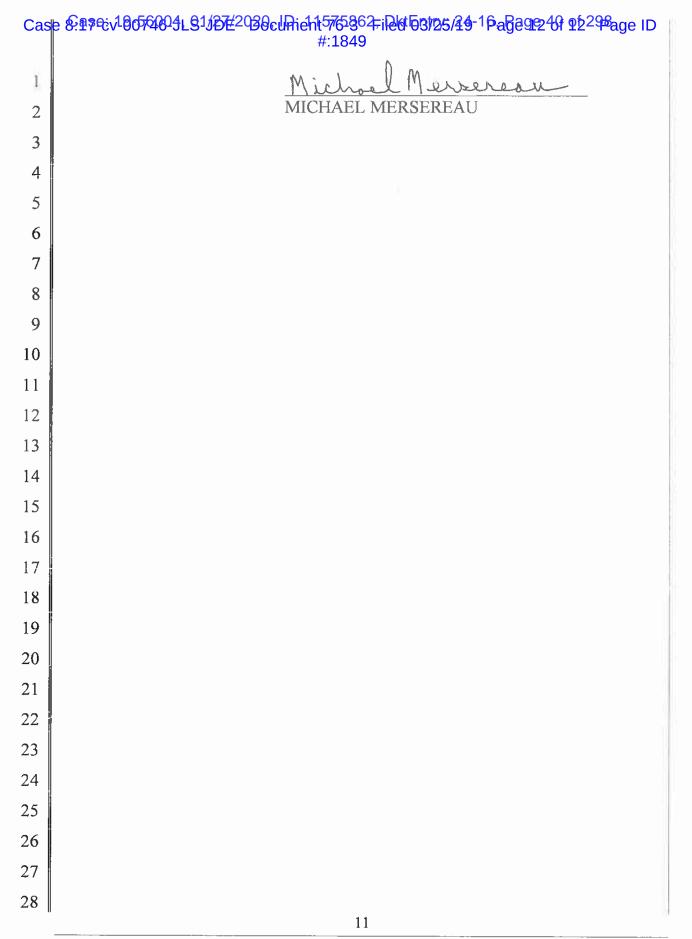
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Executed on October 25, 2018 at Los Angeles, California.

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Declaration of Michael Mersereau (8:17-cv-00746-JLS-JDE)

Exhibit 4

IN THE UNITED STATES DISTRICT COURT FOR THE CENTRAL DISTRICT OF CALIFORNIA SOUTHERN DIVISION

STEVEN RUPP; STEVEN
DEMBER; CHERYL JOHNSON;
MICHAEL JONES; CHRISTOPHER
SEIFERT; ALFONSO VALENCIA;
TROY WILLIS; and CALIFORNIA
RIFLE & PISTOL ASSOCIATION,
INCORPORATED,

Case No. 8:17-cv-00746-JLS-JDE

Plaintiffs,

v.

XAVIER BECERRA, in his official capacity as Attorney General of the State of California; and DOES 1-10,

Defendants.

EXPERT REPORT OF CHRISTOPHER B. COLWELL, M.D.

I, Christopher B. Colwell, M.D., under penalty of perjury, declare and state that I am over the age of 18 and am competent to testify to the matters stated below. I am currently the Chief of Emergency Medicine at Zuckerberg San Francisco General Hospital and Trauma Center and Professor and Vice Chair in the Department of Emergency Medicine at the University of California at San Francisco School of Medicine. I was previously the Chief of Emergency Medicine at Denver Health Medical Center and Professor and Executive Vice Chair in the

Department of Emergency Medicine at the University of Colorado School of Medicine. I received my Emergency Medicine training at Denver General Hospital in the Denver Affiliated Residency in Emergency Medicine and am board certified by American Board of Emergency Medicine (ABEM) in both Emergency Medicine and Emergency Medicine (EMS). I am licensed to practice medicine in the states of California and Colorado.

I have over 25 years of experience treating gunshot wound victims in the Emergency Department at large urban level I trauma centers and in that time have treated over a thousand patients with gunshot wounds. I am qualified to offer opinions as to the physiologic trauma caused by gunshot wounds and other penetrating injuries. I have been retained by the California Attorney General in this case to provide expert testimony on my experience treating victims of gunshot wounds and am being compensated at a rate of \$350.00 per hour. A list of my work history, educational background, and publications, including any publications in the past 10 years and expert witness testimony in the past 4 years, is included in my curriculum vitae, which is attached to this report.

I have experienced first-hand the extensive damage caused by assault weapons, and I have witnessed both victims and on occasion even shooters experience the horror of what these weapons can do. In one instance a man who

had shot his girlfriend with an assault rifle said he had had no idea how destructive assault weapons can be. He admitted to me that he had used a newly acquired AR-15 in the shooting. I have seen the devastating impact these events have on the lives of my patients and their families. I have spoken extensively around the country on the experience of caring for victims of mass shootings and have testified as the treating physician on multiple occasions to describe the extent of injuries due to gunshot wounds from all weapons, including assault rifles, in criminal trials. I was subpoenaed in these cases by the prosecuting district attorney and was not compensated for that testimony.

Firearm injuries are an important public health problem in the United States, accounting for more than 30,000 deaths each year in addition to significant illness and disability. I have extensive experience with the different wounds caused by assault and non-assault weapons and the consistently more serious nature of the injuries from assault weapons. Gunshot wounds from assault rifles, such as AR-15s and AK-47s, tend to be higher in complexity with higher complication rates than such injuries from non-assault weapons, increasing the likelihood of morbidity in patients that present injuries from assault rifles. In my experience, assault rifles tend to cause far greater damage to the muscles, bones, soft tissue, and vital organs. They are too often shredded beyond repair. The greater complications are likely due to the

higher muzzle velocity and higher caliber of rounds involved in assault rifle shootings.

My first-hand experience treating victims of gunshot wounds includes being the physician at the scene of the Columbine High School shooting on April 20, 1999, in which a TEC-DC 9 pistol and a Hi-Point 995 rifle were used, and as an Emergency Department physician treating victims of the Aurora Theater shooting on July 20, 2012, in which an AR-15 was used. I have treated many other patients that have been both victims and shooters of assault weapons, including AK-47s and AR-15s, and have also treated many victims and shooters of non-assault weapons and other weapons. While significant injury can certainly result from non-assault weapons, my experience has been that individuals who have been shot by assault weapons tend to have more wounds and injuries that are far more extensive. These weapons cause significantly more damage and have resulted in higher morbidity and mortality than other weapons.

There is no doubt in my mind that victims of assault weapons, including assault rifles, are at far greater risk of both immediate and long term complications from the damage the velocity of these bullets cause. These complications include higher amputation rates and higher infection rates. A vivid example was a victim of a shooting from a Glock handgun who presented to our Emergency Department with

an elbow wound. We were able to treat this wound and release the patient from the

Emergency Department. Just three months earlier, I had seen a patient shot in the

exact same spot with an AK-47 and the arm needed to be amputated just below the

shoulder. This is just one example of the additional damage and destruction assault

weapons cause, which I have witnessed in the course of treating trauma patients. In

each of these examples, law enforcement informed me of the weapon used in the

shooting.

Assault rifles, especially when equipped with large capacity magazines, can

fire more shots faster, causing more injuries per victim (and thus more

complications) and many of the most devastating injuries I have managed in my over

25 years of experience treating gunshot wound victims. It is my opinion that while

all weapons pose risk, assault rifles, especially when equipped with large capacity

magazines, pose a far greater risk to the public from a medical standpoint than non-

assault firearms.

Dated: October 25, 2018

Christopher B. Colwell, M.D.

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Curriculum Vitae Christopher Beall Colwell, M.D

Personal History

Current Position:

Chief, Department of Emergency Medicine Zuckerberg San Francisco General Hospital and Trauma Center Professor and Vice Chair, Department of Emergency Medicine UCSF School of Medicine

Work Address:

Zuckerberg San Francisco Hospital and Trauma Center Department of Emergency Medicine 1001 Potrero Ave. #6A02 San Francisco, CA 94110

Christopher.Colwell@ucsf.edu

Phone: (415) 206-2518 Fax: (415) 206-5818

Board Certification:

1) American Board of Emergency Medicine 1997 Re-certification 2007, 2017

2) American Board of Emergency Medicine – Emergency Medical Services 2015

Education:

Undergraduate: University of Michigan

Ann Arbor, Michigan

Bachelor of Science Degree, 1988

Medical School: Dartmouth Medical School

Hanover, New Hampshire Medical Doctorate, 1992

Internship: St. Joseph Mercy Hospital/University of Michigan

Ann Arbor, Michigan

Transitional Medicine, 1993

Residency: Denver Affiliated Residency in Emergency Medicine

Denver, Colorado, 1993-1996 Chief Resident 1995-1996

Academic appointments:

Professor and Vice Chair
 Department of Emergency Medicine
 University of California at San Francisco School of Medicine
 2016 - Present

Professor of Emergency Medicine
 Department of Emergency Medicine
 University of Colorado School of Medicine
 2012-2016

- 3. Executive Vice Chair, Department of Emergency Medicine, 2010 2016 University of Colorado School of Medicine 2010-2016
- 4. Associate Professor of Emergency Medicine Department of Emergency Medicine University of Colorado School of Medicine 2010-2012
- Associate Professor of Emergency Medicine
 Division of Emergency Medicine, Department of Surgery
 University of Colorado Health Sciences Center
 2004-2009
- Assistant Professor of Emergency Medicine
 Department of Emergency Medicine, University of Michigan School of Medicine
 Ann Arbor, Michigan
 1996-1998

Clinical appointments:

- Chief of Emergency Medicine, 2016-present
 Department of Emergency Medicine
 Zuckerberg San Francisco General Hospital and Trauma Center
 San Francisco, California
- Director of Emergency Medicine, 2010 2016
 Interim Director of the Department of Emergency Medicine, 2009-2010
 Associate Director, 2000-2009
 Attending Physician, 1998-2016
 Department of Emergency Medicine
 Denver Health
 Denver, Colorado
- 3. Program Director, EMS Fellowship 2000-2012
- 4. Medical Director, Denver Paramedic Division 2000-2012
- 5. Medical Director, Denver Fire Department 2000-2010
- 6. Associate Director, Denver Paramedic Division 1998-2000
- 7. Senior Associate Director, Denver Health Residency in Emergency Medicine 2009 2016
- 8. Attending Physician, 1996-1998 St. Joseph Mercy Hospital/University of Michigan Ann Arbor, Michigan

Honors and Awards: 2017-2018 Quarterly Resident Bedside Teaching Award

UCSF Department of Emergency Medicine

Outstanding Contributions - Best Authors in Adult

Emergency Medicine

UpToDate – Wolters Kluwer

March, 2017

2016 Career Service Award Denver Health and Hospital Association Medical Staff Awards September 21st, 2016

The Peter Rosen Leadership Award Presented by the 2016 Emergency Medicine Residency at Denver Health for Outstanding Departmental Leadership June 27th, 2016

2016 Financial Vitality Pillar Award For largest increase in charges and revenue while maintaining same cost June 9th, 2016

Meritorious Service Award
Presented by the Colorado Chapter of the American
College of Emergency Physicians for Achievements that
have Enhanced Colorado's Health Care System and the
Profession of Emergency Medicine in Colorado. January
20th, 2015

2015 Patient Safety and Quality Pillar Award For meticulous, high-quality, and thoughtful design and implementation of Denver Health's Ebola Preparedness Plan June, 2015

The Corey M. Slovis Award for Excellence in Education. U.S. Metropolitan Municipalities EMS Medical Directors Consortium, February, 2015

Positively Collaborative Award for outstanding collaboration towards the improvement of Colorado's trauma system. Trauma Program, Colorado Department of Public Health and Environment, January, 2012

The Vincent J. Markovchick Program Director's Award 2011

Distinctive Service Award – Denver Paramedic Division 2010

Chief Executive Officer Special Commendation Award for expert medical leadership of Denver's 911 system, 2009

Mayor's Award of Appreciation for assistance and aid to Hurricane Katrina evacuees. 2005

Ernest E. Moore Award for Outstanding Contributions in Trauma Care, 2000

Outstanding Senior Resident, 1996

Chief Resident, Emergency Medicine Residency, 1995-1996

Membership in professional organizations:

- 1. American College of Emergency Physicians (ACEP), 1994-present
 - a. Fellow, 1999-present
 - b. Colorado ACEP, 1993-1996, 1998-present
 - c. Michigan ACEP, 1996-1998
- 2. American Medical Association (AMA), 1993-2000, 2006-present
- 3. National Association of EMS Physicians (NAEMSP), 2002-present
- 4. Society for Academic Emergency Medicine (SAEM), 1995-2000, 2008-present
- 5. Emergency Medicine Residents Association (EMRA), 1992-1997

Major Committee, Teaching, and Service Responsibilities:

- 1. Medical Executive Committee, Zuckerberg San Francisco General Hospital and Trauma Center. 2016-present
- 2. CPG Board of Directors. 2016-present
- 3. UCSF Department of Emergency Medicine Incentive Review Committee. 2016 present
- 4. Zuckerberg San Francisco General Hospital and Trauma Center Trauma Peer Review Committee. 2016-present
- 5. Board of Directors, American College of Emergency Physicians Colorado Chapter, 2007-2011
- 6. Conference Director, Annual Rocky Mountain Conference in Trauma and Emergency Medicine, 2003 2016
- 7. American Board of Emergency Medicine (ABEM) Oral Board Examiner, 2011 present
- 8. Course Director, <u>Introduction to Traumatic Emergencies</u>, (SURG 6623) University of Colorado School of Medicine, 1999
 - a. A course for second year medical students that introduces the student to selected traumatic emergencies and their management

- 9. Course Director, <u>Prehospital Medicine (SURG 6626)</u>, University of Colorado at Denver School of Medicine, 2005-2016
 - a. A course for first and second year medical students that introduces them to prehospital medicine and includes clinical time riding on an ambulance
- 10. Course Director, <u>Flight Medicine (SURG 6628)</u>, University of Colorado at Denver School of Medicine, 2009-2016
 - a. A course for second year medical students (SURG 6626 is a prerequisite) that introduces the student to flight medicine and includes clinical time riding in a helicopter as well as fixed wing airplane transport
- 11. Instructor, <u>Introduction to Traumatic Emergencies</u>, (SURG 6623) University of Colorado School of Medicine, 1999-2016
- 12. Lecturer, <u>Injury Epidemiology and Control</u> (PRMD 6637), University of Colorado School of Medicine, 2003
- 13. Instructor, <u>Emergency Medicine at Denver Health Medical Center</u> (SURG 8005), University of Colorado School of Medicine, 1998-2016
- 14. Instructor, <u>Integrated Clinicians Course</u> (ICC) 8005: Preparing for Internship: Reading and Understanding EKGs
- 15. Instructor, <u>Integrated Clinicians Course (ICC) IDPT 7003: Management of</u> Trauma, University of Colorado School of Medicine, 2011
- 16. Instructor, <u>Integrated Clinicians Course (ICC) IDPT 7004: Management of Trauma</u>, University of Colorado School of Medicine, 2010. Lecturer and small group leader
- 17. Instructor, <u>Integrated Clinicians Course (ICC) IDPT 7004: Management of Trauma</u>, University of Colorado School of Medicine, 2009. Lecturer and small group leader
- 18. Member, Medical Staff Executive Committee, 2009-present
- 19. Member, Denver Health Executive Committee for Patient Safety and Quality, 2006-present
- Council Member, Colorado's Mile High Regional Emergency and Trauma Advisory Council (RETAC), Denver County appointed representative, 2000present
- 21. Committee chair, Destination and Diversion committee, Mile High RETAC 2002-present
- 22. Member, State EMS Formulary Task Force, 2006 2009
- 23. Member, Pediatric Trauma Committee, 2006-present
- 24. Member, Rocky Mountain Center for Medical Response (RMCMR), 2002-present
- 25. Member, Colorado State Advisory Council on Emergency Medical Services, 1998-2000
- 26. Ute Mountain Ute EMS Program medical director, 1994-1996
- 27. Steering Committee member, Denver Health Residency in Emergency Medicine, 1998-present
- 28. Denver Health Residency in Emergency Medicine Compliance Committee, 2006-present

- 29. Pharmacy and Therapeutics Committee member, Denver Health Medical Center, 1998-2006
- 30. EMS Education committee member, Denver Health Medical Center, 1998-present
- 31. Safety Committee member, Denver Health Medical Center, 1998-2001
- 32. Residency Advisory Committee, Denver Health Medical Center Residency in Emergency Medicine, 1998-present
- 33. Moderator, Case Presentations, Rocky Mountain Critical Care Transport Conference, May, 2003
- 34. Instructor, Difficult Airway Lab, Rocky Mountain Critical Care Transport Conference, May, 2003
- 35. Trauma Center Site Surveyor, State of Florida Department of Health and Rehabilitative Services, Office of Emergency Medical Services, 2003-present
- 36. Member, Denver EMS Council, 1998-present
- 37. Member, Denver Metro Physician Advisors, 1999-present
- 38. Medical Expert and Faculty, Boulder Trial Academy, International Association of Defense Counsel, 1998-2002
- 39. Member, Medical Advisory Group (MAG), to the Colorado State EMS Director, 2003-2008
- 40. Transfusion Committee member, St. Joseph Mercy Hospital, Ann Arbor, Michigan. 1996-1998

Licensure and Board Certification

Licensure:

- 1) State of California (#G142756), 2016 Present
- 2) State of Colorado (#34341), 1993 1996, 1998 present
- 3) State of Michigan (#4301059401), 1996 1998

Board Certification: Emergency Medicine

American Board of Emergency Medicine (1997)

Recertification (2007)

Editorial Positions

- 1. Section Editor, Trauma, UpToDate, 2009 present
- Section Editor, <u>Abstracts</u>
 The Journal of Emergency Medicine, 1999-2002
- 3. Review Editor, The Journal of Emergency Medicine, 1999-2008
- 4. Review Editor, Western Journal of Emergency Medicine, 2008 present
- 5. Manuscript reviewer, Academic Emergency Medicine, 2003 present
- 6. Manuscript reviewer, Critical Care, 2008-present
- 7. Manuscript reviewer, Patient Safety in Surgery, 2009-present
- 8. Guest Editor, EM International, Prehospital Care

Prior Testimony as an Expert Witness

1. Worman v. Healey, Case No. 1:17-cv-10107-WGY (D. Mass. Nov. 8, 2017) (by deposition)

Publications:

Peer Reviewed Journal Articles

- 1. Shapiro M, Dechert, **Colwell C**, Bartlett R, Rodriguez: <u>Geriatric Trauma:</u> <u>Aggressive Intensive Care Management is Justified.</u> American Surgeon 1994;60(9):695-8
- Colwell C, Pons PT, Blanchet J, Mangino C: <u>Claims Against a Paramedic Ambulance Service: A Ten Year Experience.</u> J Emerg Med 1999, 17(6):999-1002
- 3. Apfelbaum J, **Colwell C**, Roe E: <u>Precipitous Breech Delivery of Twins: A</u> Case Report. Prehospital Emerg Care 2000; 4(1):78-81
- 4. Gnadinger CA, Colwell C, Knaut AL: <u>Scuba Diving-Induced Pulmonary</u> Edema in a Swimming Pool. J Emerg Med 2001; 21(4):419-421
- 5. Houry D, **Colwell C**, Ott C: <u>Abdominal Pain in a Child after Blunt Abdominal Trauma: An Unusual Injury.</u> J Emerg Med 2001; 21(3):239-241
- 6. Barton E, Ramos J, **Colwell C**, Benson J, Bailey J, Dunn W: <u>Intranasal Administration of Naloxone by Paramedics.</u> Prehosp Emerg Care 2002; 6:54-8
- 7. **Colwell C**, Pons PT, Pi R: <u>Complaints Against an EMS System.</u> J Emerg Med 2003;25(4):403-408
- 8. **Colwell C,** McVaney K, Haukoos J, Wiebe D, Gravitz C, Dunn W, Bryan T: An Evaluation of Out-of-Hospital Advanced Airway Management in an Urban Setting. Acad Emerg Med 2005; 12(5):417-22
- 9. McVaney KE, Macht M, Colwell CB, Pons PT: <u>Treatment of Suspected Cardiac Ischemia with Aspirin by Paramedics in an Urban Emergency Medical Services System.</u> Prehospital Emerg Care 2005, 9(3):282-284
- 10. Barton E, **Colwell CB**, Wolfe TR, Fosnocht D, Gravitz C, Bryan T, Dunn W, Benson J, Bailey J: <u>The Efficacy of Intranasal Naloxone as a Needleless Alternative for Treatment of Opiate Overdose in the Prehospital Setting.</u> J Emerg Med 2005;29(3):265-71
- 11. Levine SD, Colwell CB, Pons PT, Gravitz C, Haukoos JS, McVaney KE:

 <u>How Well do Paramedics Predict Admission to the Hospital? A Prospective</u>
 Study. J Emerg Med 2006;31(1):1-5
- 12. **Colwell CB**: <u>Case Studies in Infectious Disease: Travel-Related Infections</u>. Emerg Med 2006;38(10):35-43
- 13. Bonnett CJ, Peery BN, Cantril SV, Pons PT, Haukoos JS, McVaney KE, Colwell CB: Surge capacity: a proposed conceptual framework. Am J Emerg Med 2007;25:297-306.
- 14. **Colwell C**. Initial evaluation and management of shock in adult trauma. In: UpToDate, Basow DS (Ed), UpToDate, Waltham, MA, 2007 present

- 15. Bonnett CJ, **Colwell CB**, Schock T, McVaney KE, Depass C: <u>Task Force St. Bernard</u>: Operational Issues and Medical Management of a National Guard <u>Disaster Response</u>. Prehospital and Disaster Medicine 2007;22(5):440-447
- 16. Colwell CB: Heat Illness. Emerg Med 2008; 40(6): 33-39
- 17. **Colwell CB**, Cusick JC, Hawkes AP and the Denver Metro Airway Study Group: A prospective study of prehospital airway management in an urban EMS system. Prehosp Emerg Care 2009; 13:304-310
- 18. **Colwell CB**, Mehler P, Harper J, Cassell L, Vazquez J, Sabel A: <u>Measuring quality in the prehospital care of chest pain patients.</u> Prehospital Emerg Care 2009;13:237-240
- 19. Kashuk JL, Halperin P, Caspi G, **Colwell CB**, Moore EE: <u>Bomb explosions in acts of terrorism: Evil creativity challenges our trauma systems.</u> J Am Coll Surg 2009; 209(1):134-140
- 20. Stone SC, Abbott J, McClung CD, Colwell CB, Eckstein M, Lowenstein SR: Paramedic knowledge, attitudes, and training in end-of-life care. Prehospital Disaster Medicine 24(6):529-34, Nov-Dec 2009.
- 21. Gaither JB, Matheson J, Eberhardt A, Colwell CB: <u>Tongue engorgement associated with prolonged use of the King-LT laryngeal tube device.</u> Ann Emerg Med, 2009. Ann Emerg Med 2010; 55(4):367-9.
- 22. Bookman SJ, Eberhardt AM, Gaither JB, Colwell CB: <u>Hospital Group</u>

 <u>Preparation for the 2008 Democratic National Convention.</u> Journal of

 Homeland Security and Emergency Management 2010; Vol. 7: Iss. 1, Article
 16.
- 23. Haukoos JS, Witt G, Gravitz C, Dean J, Jackson D, Candlin T, Vellman P, Riccio J, Heard K, Kazatomi T, Luyten D, Pineda G, Gunther J, Biltoft J, Colwell CB: <u>Out-of-hospital cardiac arrest in Denver, Colorado:</u> Epidemiology and outcomes. Acad Emerg Med 2010; 17(4):391-8.
- 24. Haukoos JS, Byyny RL, Erickson C, Paulson S, Hopkins E, Sasson C, Bender B, Gravitz C, Vogel JA, **Colwell CB**, Moore EE. <u>Validation and refinement of a rule to predict emergency intervention in adult trauma patients.</u> Ann Emerg Med 2011;58:164-171
- 25. **Colwell CB**, Eberhardt A. <u>Less Lethal Force</u>. Emergency Medicine Reports 2011, 32(18):1-12
- 26. Soriya G, McVaney KE, Liao MM, Haukoos JS, Byyny RL, Gravitz C, Colwell CB. Safety of prehospital intravenous fentanyl for adult trauma patients. J Trauma Acute Care Surg 2012;72(3):755-59
- 27. Gudnik MR, Sasson C, Rea TD, Sayre MR, Zhang J, Bobrow BJ, Spaite DW, McNally B, Denninghoff K, Stolz U, Levy M, Barger J, Dunford JV, Sporer K, Salvucci A, Ross D, Colwell CB, Turnbull D, Rosenbaum R, Schrank K, Waterman M, Dukes R, Lewis M, Fowler R, Lloyd J, Yancey A, Grubbs E, Lloyd J, Morris J, Boyle S, Johnson T, Wizner C, White M, Braithwaite S, Dyer S, Setnik G, Hassett B, Santor J, Swor B, Chassee T, Lick C, Parrish M, Radde D, Mahoney B, Todd D, Salomone J, Ossman E, Myers B, Garvey L, Camerson J, Slattery D, Ryan J, McMullan J, Keseg D, Leaming J, Sherwood BK, Luther J, Slovis C, Hinchey P, Harrington M, Griswell J, Beeson J, Persse D, Gamber M, Ornato J. Increasing hospital volume is not associated

- with improved survival in out of hospital cardiac arrest of cardiac etiology. Resuscitation 2012; 83(7):862-8
- 28. Mascolo M, Trent S, Colwell CB, Mehler PS. What the Emergency Department needs to know when caring for your patients with eating disorders. Int J Eat Disord 2012;45(8):977-81
- 29. **Colwell CB**, Bookman S, Johnston J, Roodberg K, Eberhardt AM, McVaney KE, Kashuk J, Moore EE. <u>Medical Preparation for the 2008 Democratic</u> National Convention. J Trauma Acute Care Surg 2012 Dec;73(6):1624-8
- 30. Trent SA, Moreira ME, **Colwell CB**, Mehler P. <u>ED management of patients with eating disorders</u>. Am J Emerg Med 2013 May;31(5):859-65
- 31. French AJ, Colwell CB. <u>Atlas of Emergency Ultrasound</u>. J Trauma Acute Care Surg 2013:75:919.
- 32. Cleveland N, **Colwell C**, Douglass E, Hopkins E, Haukoos JS. <u>Motor Vehicle Crash Severity Estimations by Physicians and Prehospital Personnel.</u> Prehosp Emerg Care 2014;18(3):402-7
- 33. Macht M, Mull AC, McVaney KE, Caruso EH, Johnston JB, Gaither JB, Shupp AM, Marquez KD, Haukoos JS, Colwell CB. Comparison of Droperidol and Halperidol for use by paramedics: Assessment of safety and effectiveness. Prehosp Emerg Care 2014:18(3):375-80
- 34. Nassel AF, Root ED, Haukoos JS, McVaney K, Colwell C, Robinson J, Eigel B, Magid DJ, Sasson C. <u>Multiple cluster analysis for the identification of high-risk census tracts for out-of-hospital cardiac arrest (OHCA) in Denver, Colorado.</u> Resuscitation 2014;85:1667-73
- 35. Vogel JA, Seleno N, Hopkins E, **Colwell CB**, Gravitz C, Haukoos JS. <u>Denver Emergency Department Trauma Organ Failure Score outperforms traditional methods of risk stratification in trauma</u>. Am J Emerg Med 2015;33(10):1440-4
- 36. Vogel JA, Newgard CD, Holmes JF, Diercks DB, Arens AM, Boatright DH, Bueso A, Gaona SD, Gee KZ, Nelson A, Voros JJ, Moore EE, **Colwell CB**, Haukoos JS; Western Emergency Services Translational Research Network. Validation of the Denver Emergency Department Trauma Organ Failure Score to Predict Post-Injury Multiple Organ Failure. J Am Coll Surg 2016;222(1):73-82
- 37. Joseph D, Vogel JA, Smith CS, Barrett W, Bryskiewicz G, Eberhardt A, Edwards D, Rappaport L, **Colwell CB**, McVaney KE. <u>Alcohol as a Factor in 911 Calls in Denver</u>. Prehosp Emerg Care 2018, 22(4):427-35

Invited Articles, Book Chapters, and Editorials

- 1. **Colwell C**, Harken A: <u>Cardiac Arrhythmias</u>. In: Markovchick V, Pons P(eds) <u>Emergency Medicine Secrets.</u> Hanley & Belfus, Inc., Philadelphia, PA; 2nd Edition, 1999, pp. 119-123
- 2. Murphy P, **Colwell C**: <u>Prehospital Management of Epiglottitis</u>. EMS 2000; 29(1):41-9
- 3. Murphy P, **Colwell C**: <u>Prehospital Management of Neck Trauma.</u> EMS 2000; 29(5):53-71

- 4. Murphy P, Colwell C: <u>Heatwave: Prehospital Mangement of Heat Related</u> Conditions. EMS 2000; 29(6):33-49
- 5. Murphy P, **Colwell C**: <u>Prehospital Management of Diabetes.</u> EMS 2000; 29(10):78-85
- 6. Murphy P, **Colwell C**, Bryan T: *Noncardiac Chest Pain*. EMS 2001; 30(4):66-71
- 7. Murphy P, **Colwell C**: <u>Communication Breakdown: When Medic and Medical</u> <u>Control Don't Agree.</u> Cover Story, EMS 2001 30(5):61-2
- 8. Murphy P, Colwell C, Linder G: Assessment Clues. EMS 2001; 30(7):45-8
- 9. **Colwell C**, Murphy P, Bryan T: <u>Mechanism of Injury: An Overview</u> Cover Story, EMS 2003; 32(5):52-64
- 10. **Colwell C**, Harken A: <u>Cardiac Arrhythmias</u>. In: Markovchick V, Pons P(eds) <u>Emergency Medicine Secrets.</u> Hanley & Belfus, Inc., Philadelphia, PA; 3rd Edition, 2003, pp. 140-143
- 11. Kendall J, **Colwell C**: <u>Pericarditis and Myocarditis</u> In: Markovchick V, Pons P (eds) <u>Emergency Medicine Secrets</u>. Hanley & Belfus, Inc., Philadelphia, PA; 3rd Edition, 2003, pp. 149-154
- 12. **Colwell CB,** Murphy P, Bryan T. *Prehospital Management of the Pregnant Patient*. EMS 2004; 33(3):59-67.
- 13. **Colwell CB,** Murphy P, Bryan T. *Pulseless Electrical Activity*. EMS 2004; 33(9):63-8.
- 14. **Colwell CB,** Murphy P, Bryan T, Nelson S. *Psychological Disorders: A General Overview.* EMS 2004;33(11):74-83.
- 15. **Colwell C:** <u>Traumatic Shock</u> In: Harwood-Nuss A, Wolfson A (eds) <u>The Clinical Practice of Emergency Medicine.</u> Lippincott Williams & Wilkins, Philadelphia, PA; 4th Edition, 2005; 907-12.
- 16. Colwell C, Murphy P, Bryan T. Pediatric Potpourri: An Overview of Select Pediatric Conditions. EMS 2005;34(7):50-58
- 17. **Colwell C,** Murphy P, Bryan T. *Uncompleted Suicide Attempts*. EMS 2005;34(11):73-86
- 18. Murphy P, **Colwell CB**, Pineda G, Bryan T: *Breaking Down Barriers: How EMS providers can communicate with autistic patients*. EMS 2006;35(4):84-89
- 19. Murphy P, Colwell CB, Pineda G, Bryan T: *Traumatic Amputations*. EMS 2006; 35(6):90-96
- 20. Colwell CB, Murphy P, Bryan T: Geriatric Trauma. EMS 2006;35(9):135-140
- 21. **Colwell CB**: Cardiac Dysrhythmias, Pacemakers, and Implantable Defibrillators In: Markovchick V, Pons P (eds) Emergency Medicine Secrets. Mosby Elsevier, Philadelphia, PA; 4th Edition, 2006: 194-204
- 22. Kendall JL, **Colwell CB**: *Pericarditis and Myocarditis* In: Markovchick V, Pons P (eds) <u>Emergency Medicine Secrets.</u> Mosby Elsevier, Philadelphia, PA; 4th Edition, 2006: 213-218
- 23. **Colwell CB**: *Disasters* In: Chapleau W, Pons P (eds) <u>Emergency Medical Technician</u>. Mosby JEMS Elsevier, St. Louis, MO, 2007:708-725

- 24. **Colwell CB**: *Hyperkalemia* In: Schaider J, Hayden SR, Wolfe R, Barkin RM, Rosen P (eds): <u>Rosen and Barkin's 5-Minute Emergency Consult</u> Lippincott Williams & Wilkins, Philadelphia, PA; 3rd Edition, 2007: 550-551
- 25. **Colwell CB**: *High Altitude Illness* In: Schaider J, Hayden SR, Wolfe R, Barkin RM, Rosen P (eds): <u>Rosen and Barkin's 5-Minute Emergency Consult</u> Lippincott Williams & Wilkins, Philadelphia, PA; 3rd Edition, 2007:522-523
- 26. **Colwell CB**: *Dialysis Complications* In: Schaider J, Hayden SR, Wolfe R, Barkin RM, Rosen P (eds): <u>Rosen and Barkin's 5-Minute Emergency Consult</u> Lippincott Williams & Wilkins, Philadelphia, PA; 3rd Edition, 2007:310-311
- 27. **Colwell CB**: *Gastroenterology* In: Chapleau W, Burba AC, Pons PT, Page D (eds): The Paramedic McGraw-Hill, New York, NY; 2008:839-861
- 28. **Colwell CB**: *Lightning and Electrical Injuries* In: Adams JG (Ed): Emergency Medicine Elsevier, Philadelphia, PA, 2008;131:1451
- 29. Murphy P, Colwell CB, Pineda G, Bryan T: Cerebral hemorrhage. What EMS providers need to know about cerebral anatomy and common forms of cerebral hemorrhage. EMS 2009; 38(5):46-55
- 30. **Colwell CB**, Johnston J, Schimpf B, Nieberlein D, Petre B, Bookman S, Robinson J, Jackamore S, Gaither J, Eberhardt A, Benson J, Crowl D. *The response and lessons learned from the crash at Denver International Airport*. JEMS 2009; 34(9):36-45.
- 31. Murphy P, **Colwell CB**, Pineda G, Bryan T. *Shortness of breath: A review of select conditions*. EMS 2009, 38(7):51-63.
- 32. **Colwell CB**, Moore EE: *Traumatic Shock* In: Wolfson AB (ed): <u>Harwood-Nuss' Clinical Practice of Emergency Medicine</u> Lippincott Williams &Wilkins, Philadelphia, PA, 5th Edition, 2009:142-148
- 33. **Colwell CB,** Markovchick V: *Radiation Injuries* In: Marx JA, Hockberger RS, Walls RM (eds): <u>Rosen's Emergency Medicine: Concepts and Clinical Practice</u> Mosby Elsevier Philadelphia, PA 7th Edition, 2009:1933-1941
- 34. Murphy P, **Colwell CB**, Pineda G, Bryan T: *Burning issues: By understanding the pathophysiology of burns, providers can give patients their best chance at good outcomes.* EMS 2009, 38(10):83-90.
- 35. Murphy P, **Colwell CB**, Pineda G, Bryan T: *Abdominal Pain: A review of select conditions*. EMS 2010, 39(1):68-74
- 36. Murphy P, **Colwell CB**, Pineda G, Bryan T: A Shocking Call: Prehospital assessment and management of electrical injuries and lightning strikes. EMS 2010, 39(2):46-53
- 37. Murphy P, **Colwell CB**, Pineda G, Bryan T: *Shootings: What EMS providers need to know: the assessment and treatment of victims of gunshot wounds.* EMS 2010, 39(4):37-45
- 38. **Colwell CB**: *Managing the Acutely Agitated Patient*. EMS Innovations 2010 EMS 2010, 39(7):I-8-I-9
- 39. Soriya G, **Colwell CB**: *Basic Life Support*. In: Moore EE (ed): <u>Encyclopedia</u> of Intensive Care Medicine Springer, 1st Edition, 2010
- 40. Soriya G, **Colwell CB**: *Emergency Medical Services* In: Moore EE (ed): <u>Encyclopedia of Intensive Care Medicine</u> Springer, 1st Edition, 2010

- 41. Mull A, Colwell CB: *Prehospital Care* In: Moore EE (ed): <u>Encyclopedia of Intensive Care Medicine</u> Springer, 1st Edition, 2010
- 42. Murphy P, **Colwell CB**, Pineda G, Bryan T: *Hemochromatosis*. EMS 2010; 39(10):53-57
- 43. **Colwell CB**: *Hyperkalemia* In: Schaider JJ, Barkin RM, Hayden SR, Wolfe RE, Barkin AZ, Shayne P, Rosen P (eds): <u>Rosen and Barkin's 5-Minute Emergency Medicine Consult</u> Lippincott Williams & Wilkins, a Wolters Kluwer, PA 4th Edition, 2011: 552-553
- 44. **Colwell CB**: *High Altitude Illness* In: Schaider JJ, Barkin RM, Hayden SR, Wolfe RE, Barkin AZ, Shayne P, Rosen P (eds): <u>Rosen and Barkin's 5-Minute Emergency Medicine Consult</u> Lippincott Williams & Wilkins, Wolters Kluwer, PA 4th Edition, 2011: 524-525
- 45. **Colwell CB**: *Dialysis Complications* In: Schaider JJ, Barkin RM, Hayden SR, Wolfe RE, Barkin AZ, Shayne P, Rosen P (eds): <u>Rosen and Barkin's 5-Minute Emergency Medicine Consult</u> Lippincott Williams & Wilkins, a Wolters Kluwer, PA 4th Edition, 2011: 310-311
- 46. **Colwell CB**, Mull AC: *Cardiac Dysrhythmias, Pacemakers, and Implantable Defibrillators*. In: Markovchick VJ, Pons PT, Bakes KM (eds): <u>Emergency</u> Medicine Secrets Elsevier Mosby, St. Louis MO 5th Edition, 2011:208-218
- 47. Kendall JL, **Colwell CB**: *Pericarditis and Myocarditis* In: Markovchick VJ, Pons PT, Bakes KM (eds): <u>Emergency Medicine Secrets</u> Elsevier Mosby, St. Louis MO 5th Edition, 2011:229-234
- 48. **Colwell CB**, Soriya G: *Heat Illness* In: Markovchick VJ, Pons PT, Bakes KM (eds): <u>Emergency Medicine Secrets</u> Elsevier Mosby, St. Louis MO 5th Edition, 2011:407-410
- 49. Murphy P, Colwell CB, Pineda G: Smoke Inhalation. EMS World 2011; May issue
- 50. Eberhardt A, **Colwell CB**: *Prehospital Care*. In: Legome E, Shockley LW (eds): <u>Trauma: A Comprehensive Emergency Medicine Approach</u> Cambridge University Press, New York, 2011:653-662
- 51. Crowl D, **Colwell CB**, Mettera CJ: *Double trouble: Don't get fooled when assessing the pregnant trauma patient.* JEMS 2011; Sept:52-59
- 52. Mehler PS, **Colwell CB**, Stahel PF: A structured approach to improving patient safety: Lessons from a public safety-net system. Patient Safety in Surgery 2011; 5:32 (1 December, 2011)
- 53. Murphy P, **Colwell CB**, Pineda G: *Understanding the Trauma Triad of Death*. EMS World 2012, 41(2):44-51
- 54. Thomas SH, Colwell CB, Deslandes J, Dyer S, Goodloe JM. <u>Prehospital Care</u>. Emerg Med International 2012, Article ID 965480
- 55. **Colwell CB.** *On-Line Medical Direction*. In: Pons PT, Markovchick VJ (eds): Prehospital Care: Pearls and Pitfalls. People's Medical Publishing House, Shelton, CT, 2012:79-82
- 56. Colwell CB. Incident Management. In: Pons PT, Markovchick VJ (eds): <u>Prehospital Care: Pearls and Pitfalls</u>. People's Medical Publishing House, Shelton, CT, 2012:137-45

- 57. **Colwell CB**. *Chest Pain*. In: Pons PT, Markovchick VJ (eds): <u>Prehospital Care: Pearls and Pitfalls</u>. People's Medical Publishing House, Shelton, CT, 2012:239-44
- 58. Prehospital Care. Emergency Medicine International Special Edition. Thomas SH, Colwell C, Deslandes JC, Dyer S, Goodloe JM, Guest Editors. Hindawi Publishing Corp, 2012
- 59. Thomas SH, **Colwell C**, Deslandes JC, Dyer S, Goodloe JM. Prehospital Care. Emergency Medicine International 2012; article ID 965480
- 60. **Colwell CB**. *Lightning and Electrical Injuries*. In: Adams (ed): <u>Emergency Medicine</u>: <u>Clinical Essentials</u> Elsevier Saunders, Philadelphia, PA 2nd Edition 2013:1148-52
- 61. **Colwell CB.** Book review: *An Introduction to Clinical Emergency Medicine*, 2^{nd} *ed.* In: J Trauma and Acute Care Surgery 2013 Jan;74(1):344
- 62. **Colwell CB.** *Radiation Injuries* In: Marx (ed): <u>Rosen's Emergency Medicine</u>; <u>Concepts and Clinical Practice</u> Elsevier Saunders, Philadelphia, PA 8th Edition, 2014:1945-53
- 63. Murphy P, **Colwell C**, Pineda G. *All You Need to Know About Bariatrics*. EMS World 2014, 43(3):26-35
- 64. **Colwell CB**, Moore EE. *Traumatic Shock*. In: Wolfson AB (ed): <u>Harwood Nuss' Clinical Practice of Emergency Medicine</u> Lippincott Williams &Wilkins, Philadelphia, PA, 6th Edition, 2014:137-142
- 65. **Colwell CB.** *High Altitude Illness* In: Schaider et al (ed): <u>Rosen and Barkin's 5- Minute Emergency Medicine Consult</u>. Wolters Kluwer, Philadelphia, PA 5th Edition, 2015:534-5
- 66. **Colwell CB.** *Dialysis Complications* In: Schaider et al (ed): Rosen and Barkin's 5- Minute Emergency Medicine Consult. Wolters Kluwer, Philadelphia, PA 5th Edition, 2015: 312-3
- 67. **Colwell CB.** *Hyperkalemia* In: Schaider et al (ed): Rosen and Barkin's 5-Minute Emergency Medicine Consult. Wolters Kluwer, Philadelphia, PA 5th Edition, 2015: 562-3
- 68. **Colwell CB.** Refusal in the Field: When can an uncooperative patient refuse care and transport? Journal of Emergency Medical Services (JEMS) July, 2016
- 69. **Colwell CB**, Moore E. *Initial evaluation and management of abdominal gunshot wounds in adults.* In: UpToDate, Post TW (Ed), UpToDate, Waltham, MA. (Accessed April 15th, 2017)
- 70. **Colwell CB**, Moore E. *Initial evaluation and management of abdominal stab wounds in adults*. In: UpToDate, Post TW (Ed), UpToDate, Waltham, MA. (Accessed April 15th, 2017)
- 71. **Colwell CB**. *Initial evaluation and management of shock in adult trauma*. In: UpToDate, Post TW (Ed), UpToDate, Waltham, MA. (Accessed April 15th, 2017)
- 72. **Colwell CB**. *Geriatric trauma: Initial evaluation and management*. In: UpToDate, Post TW (Ed), UpToDate, Waltham, MA. (April 15th, 2017)

- 73. **Colwell CB**. *Supply, Demand, and Crisis: Emergency Department Diversion of Ambulances in San Francisco*. San Francisco Medicine (Journal of The San Francisco Medical Society), 90(3):15-17, April, 2017
- 74. **Colwell CB,** Fox CJ. *Abdominal Aortic Aneurysm*. In: Rosen's Emergency Medicine Concepts and Clinical Practice. Elsevier, Philadelphia, PA. 9th Edition, 2018:1027-35.
- 75. **Colwell CB**. *Imaging in trauma*. Audio Digest Emergency Medicine 35:16 (August21), 2018
- 76. **Colwell CB.** *Geriatric trauma*. Audio Digest Emergency Medicine 35:16 (August21), 2018
- 77. Mason J, Colwell CB, Grock A. *Agitation Crisis Control*. Ann Emerg Med 2018;72:371-3
- 78. Mason J, Mallon B, **Colwell CB**. *Restraining the Agitated Patient*. EM:RAP October 2018, Volume 18, Issue 10.

Letters to the Editor

- 1. **Colwell C**, Markovchick V, Pons P: **Drug Concern** <u>J. Emerg. Med. Services</u> 2000;25:10
- 2. Abboud P, Colwell C: Critically reappraising the literature-driven practice of analgesia administration for acute abdominal pain in the emergency room prior to surgical evaluation. Am J Surg, 2004; Jul 188(1):102-3, Author reply 103-4
- 3. Colwell C, McVaney K, Haukoos J: Reply to: Out-of-hospital Endotracheal Intubation-It's Time to Stop Pretending that Problems Don't Exist. Acad Emerg Med 2005;12(12):1245-6
- 4. Colwell C: Reply to: EMS Response to Columbine: Lessons Learned. The Internet Journal of Rescue and Disaster Medicine 2006; Vol. 5, No. 2

Abstracts Presented

- Colwell C, Wolfe R, Moore E, Cairns C: Differences in Hemodynamic Data Between Geriatric and Younger Adult Trauma Patients. Poster Presentation; 21st Annual Rocky Mountain Conference on Emergency Medicine and Nursing, Jan. 30th, 1995
- 2. Colwell C, Wolfe R, Moore E, Cairns C: Differences in Hemodynamic Data Between Geriatric and Younger Adult Trauma Patients. Presented as an oral presentation at the 25th Annual Meeting of the Society for Academic Emergency Medicine, Denver, Colorado, May, 1995.
- 3. Branney S, Colwell C, Aschenbrenner J, Pons P: Safety of Droperidol for Sedating Out-of-control ED Patients. Presented at the Annual Meeting of the Society for Academic Emergency Medicine, Denver, Colorado, 1996. (Acad Emerg Med 1996; 3:527)

- 4. Barton E, Ramos J, Colwell C: Intranasal Administration of Naloxone by Paramedics: Could this be a better practice? Presented at American College of Emergency Physicians (ACEP) Research Forum, October 2001. (Ann Emerg Med 2001; 38(4):Supplement p. S18)
- 5. Barton E, Colwell C, Ramos J: Intrnasal Administration of Naloxone by Paramedics: Could this be a better practice? Presented at The First Mediterranean Emergency Medicine Congress, Stressa Convention Center, Stressa, Italy, September 2001
- 6. Levine S, Colwell C, Pons P, Gravitz C, Haukoos J: How well do paramedics predict admission to the hospital? Presented at AAEM Resident Research Competition, San Diego, California, February 2005
- 7. Colwell C, Mehler P, Sabel A, Harper J, Johnson L, Cassell L: Determining the Quality of Comprehensive Care for Non-Traumatic Chest Pain through a Composite Measure. Presented at SAEM Western Regional Research Forum, Portland, Oregon, March, 2007.
- 8. Colwell C, Mehler P, Sabel A, Harper J, Johnson L, Cassell L. Analysis of Ambulance Response for Patients with Medical Chest Pain Based on the Severity of Potential Cardiac Symptoms. Presented at SAEM Western Regional Research Forum, Portland, Oregon, March 2007.
- Haukoos JA, Witt G, Colwell C. The Epidemiology of Out-of-Hospital Cardiac Arrest in Denver, Colorado. Results from Phase I of the Denver Cardiac Arrest Registry. Presented at SAEM Annual Meeting, May 30th, 2008, Washington D.C.
- 10. Kashuk JL, Moore EE, Barnett C, Berlew CC, Colwell CB, Brody A, Johnson J, Biffl W, Sabel AL. Implementation of an in-hospital mass casualty incident (MCI) plan based upon the Israeli model: The challenges of shifting to the battlefield mentality in the civilian setting. International Preparedness & Response to Emergencies & Disasters Conference. Tel –Aviv, Israel. January 11th, 2010.
- 11. Moore EE, Kashuk JL, Colwell CB, Barnett C, Burlew CC, Biffl WL, Johnson JL, Brody A, Sabel A. Live victim volunteers (LVV) enhance performance improvement for in-hospital mass casualty incident (MCI) drills: listen to the patient! International Preparedness & Response to Emergencies and Disasters (IPRED). Tel-Aviv, Israel. January 12th, 2010.
- 12. Barnett C, Kashuk J, Moore EE, **Colwell CB**, Johnson JL, Biffl W, Burlew CC, Brody A, Sabel A. **Notification and Communication: Critical initial steps in mass casualty incident drills.** International Preparedness & Respons to Emergencies and Disasters (IPRED). January 12th, 2010. Tel Aviv, Israel
- 13. **Colwell CB**, Moore EE, Kashuk J, Robinson J, Bookman S. **Lessons learned from the 2008 Democratic National Convention**. International Preparedness & Response to Emergencies and Disasters (IPRED). Tel-Aviv, Israel. January 12th, 2010.
- 14. Soriya G, McVaney K, Liao M, Haukoos J, Byyny R, Colwell C. Safety of pre-hospital single-dose fentanyl in adult trauma patients. 13th Annual Western Regional Society for Academic Emergency Medicine Meeting, Sonoma, CA, 2010 (Oral).

- 15. Soriya G, McVaney K, Liao M, Haukoos J, Byyny R, Colwell C. Safety of pre-hospital single-dose fentanyl in adult trauma patients. Society for Academic Emergency Medicine Annual Meeting, Scottsdale, Phoenix, AZ, 2010 (Poster).
- 16. Sasson C, Colwell C, McNally B, Haukoos J. "Associations Between Individual-level and Census Tract-level Characteristics and Performance of Bystander CPR Among Patients Who Experience Out-of-Hospital Cardiac Arrest." Oral Presentation American Heart Association November 2010.
- 17. Sasson C, Colwell C, McNally B, Dunford J, Haukoos J. "Using the Cardiac Arrest Registry to Enhance Survival to Examine Regional Variation in the Utilization of Automated External Defibrillators." Poster Presentation Resuscitation Science Symposium American Heart Association November 2010.
- 18. Macht M, Colwell CB, Mull A, Johnston J B, Shupp A, Marquez KD, Gaither J, Haukoos J. "Droperidol versus haloperidol for prehospital sedation of acutely agitated patients." Poster presentation at NAEMSP 2012 Annual Meeting, January 2012
- 19. Nassel A, Haukoos J, McNally B, **Colwell CB**, Severyn F, Sasson C. "Using Geographic Information Systems and Cluster Analysis to identify Neighborhoods with High Out of Hospital Cardiac Arrest Incidence and Low Bystander Cardiopulmonary Resuscitation Prevalence in Denver, Colorado." Oral Presentation, Society of Academic Emergency Medicine Annual Meeting, May 2012, Chicago, Illinois. Acad Emerg Med 2012 19(4) Suppl.1, #513:S271-272
- 20. Vogel JA, Arens A, Johnson C, Ruygrok M, Smalley C, Byyny R, **Colwell CB**, Haukoos J. "Prehosptial and Emergency Department Intubation is Associated with Increased Mortality in Patients with Moderate to Severe Traumatic Brain Injury". Oral Presentation, Society of Academic Emergency Medicine Annual Meeting, May 2012, Chicago, Illinois. Acad Emerg Med 2012 19(4) Suppl. 1, #517:S273-S274
- 21. Vogel JA, Sasson C, Hopkins E, **Colwell CB**, Haukoos J. "Systems-Wide Cardiac Arrest Interventions Improve Neurologic Survival after Out-of-Hosptial Cardiac Arrest". Moderated Poster Presentation, Society of Academic Emergency Medicine Annual Meeting, May 2012, Chicago, Illinois. Acad Emerg Med 2012 19(4) Suppl. 1, #615:S324
- 22. Muramoto S, Colwell C, Mehler P, Bakes K. "Cost analysis of a hospital-based violence intervention program: At-risk intervention and mentoring program (AIM)." Poster presentation at 25th Annual Interprofessional Research and EBP Symposium, March 2014, Denver, CO.
- 23. Huang D, Niedzwiecki M, Mercer M, Colwell CB, Mann C, Hsia R. "Poor Neighborhoods Have Slower Response and Transport Times". Oral Presentation, National Association of EMS Physicians (NAEMSP) 2017 Annual Meeting, New Orleans, LA, January 26th, 2017.
- 24. Kanzaria HK, Mercer MP, To J, Costa B, Luna A, Bilinski J, Staconis D, Pitts M, Dentoni T, Williams T, Singh MK, **Colwell CB**, Marks JD. "Using Lean

Methodology to Create a Care Pathway for Low Acuity Emergency Department Patients in a Safety-Net Hospital". Poster presentation, Society for Academic Emergency Medicine (SAEM) 2017. Orlando, FL. May 17th, 2017.

25. Niedzwiecki M, Huang D, Mercer M, Colwell CB, Mann NC, Hsia RY. "Do Poor Neighborhoods Have Slower EMS Times? Oral presentation, Society for Academic Emergency Medicine (SAEM) 2017. Orlando, FL, May 18th, 2017

Invited Lectures, Presentations, and Visiting Professorships:

1. <u>Hypertensive Emergencies</u>

Interdepartmental Grand Rounds, University of Michigan Ann Arbor, Michigan, May 1997

2. Pediatric Meningitis

Emergency Medicine Grand Rounds, University of Michigan Ann Arbor, Michigan, October, 1997

3. Antibiotic Use in the Emergency Department

Attending Lecture in Emergency Medicine

Denver Health Medical Center, Denver, Colorado, October 1998

4. The Myth of EMS Response Times

26th Annual Rocky Mountain Trauma and Emergency Medicine Conference Breckenridge, Colorado, July 1999

5. Geriatric Trauma

26th Annual Rocky Mountain Trauma and Emergency Medicine Conference Breckenridge, Colorado, July 1999

- 6. <u>Mass Casualty and Disaster Management: The Columbine Shootings</u>
 Multidisciplinary Trauma Conference, Denver Health Medical Center Denver, Colorado, September 1999
- 7. <u>Mass Casualty and Disaster Management: The Columbine Shootings</u> Northeast EMS Conference

Boston, Massachusetts, September 1999

8. <u>Mass Casualty and Disaster Management: The Columbine Shootings</u> Keynote Address, Winnipeg EMS Conference Winnipeg, Canada, October 1999

9. Mass Casualty and Disaster Management

Grand Rounds

Harvard Medical School and Harvard Affiliated Emergency Medicine Residency

October 26th, 1999

Boston, Massachusetts

10. Mass Casualty and Disaster Management: The Columbine Shootings

Pediatric Emergency Care Conference

Grand Rapids, Michigan, March 2000

11. Geriatric Trauma

Trauma Care Appreciation Day

Denver, Colorado, May 2000

12. Mass Casualty and Disaster Management: The Columbine Shootings

Fifth International Conference on Pediatric Trauma

Beaver Creek, Colorado, June 2000

13. Complaints Against EMS

27th Annual Rocky Mountain Trauma and Emergency Medicine Conference Steamboat, Colorado, July 2000

14. <u>Mass Casualty and Disaster Management: The Columbine Shootings</u> Sixth Annual Trauma Symposium, Cleveland Clinic Health System Cleveland, Ohio, October 2000

15. Mass Casualty and Disaster Management: The Columbine Shootings

EMS TEST Conference

Columbus, Georgia, October 2000

16. Myocardial Infarction

Colorado State EMS Conference 2000

Breckenridge, Colorado, October 2000

17. Hypothermia

Colorado State EMS Conference 2000

Breckenridge, Colorado, October 2000

18. Complaints Against EMS

Colorado State EMS Conference 2000

Breckenridge, Colorado, October 2000

19. Hypothermia

Rocky Mountain Winter Trauma and Emergency Medicine Conference Copper Mountain, Colorado, January 2001

20. Mechanism of Injury

Grand Rounds, Longmont Community Hospital

Longmont, Colorado, March 2001

21. Stabilization of the Trauma Patient

Trauma Care Appreciation Day, Denver Health Medical Center Denver, Colorado, April 2001

22. Mass Casualty and Disaster Management: The Columbine Shootings

El Paso EMS Conference

El Paso, Texas, September 2001

23. Mass Casualty and Disaster Management: The Columbine Shootings

Memorial Medical Center Trauma Conference

Johnstown, Pennsylvania, October 2001

24. Mechanism of Injury

Colorado State EMS Conference 2001

Breckenridge, Colorado, October 2001

25. Mass Casualty and Disaster Management: The Columbine Shootings

Massachusetts EMS Conference

Worcester, Massachusetts, December 2001

26. Mass Casualty and Disaster Management: The Columbine Shootings

Sierra-Cascade Trauma Society

Crested Butte, CO, February, 2002

27. Mass Casualty and Disaster Management: The Columbine Shootings

Emergency Medicine Grand Rounds, University of Massachusetts Worcester, Massachusetts, March 2002

- 28. Mass Casualty and Disaster Management: The Columbine Shootings Multidisciplinary Trauma Conference, Denver Health Medical Center Denver, Colorado, March 2002
- 29. <u>Mass Casualty and Disaster Management: The Columbine Shootings</u> Grand Rounds, Day Kimball Hospital Putnam, Connecticut, May 2002
- 30. <u>Mass Casualty and Disaster Management: The Columbine Shootings</u> Grand Rounds, Legacy Emanuel Hospital & Health Center Portland, Oregon, June 2002
- 31. <u>Mass Casualty and Disaster Management: The Columbine Shootings</u>
 Trauma Grand Rounds, Scripps Memorial Hospital
 La Jolla, California, September 2002
- 32. <u>High Altitude Illness</u>

Annual Meeting, Sierra Cascade Trauma Society Vail, Colorado, January 2003

- 33. <u>ALS in Trauma: Should We Even Bother?</u>
 30th Annual Rocky Mountain Trauma and Emergency Medicine Conference Breckenridge, Colorado, August 2003
- 34. <u>Hypothermia</u> 30th Annual Rocky Mountain Trauma and Emergency Medicine Conference Breckenridge, Colorado, August 2003
- 35. Research in EMS

Grand Rounds, Denver Paramedic Division Denver, Colorado September, 2003

36. High Altitude Illness

Colorado State EMS Conference 2003 Keystone, Colorado, October, 2003

37. Controversies in EMS

Colorado State EMS Conference 2003 Keystone, Colorado, October 2003

38. Hypothermia

Sierra Cascade Trauma Society, 2004 Aspen, Colorado, February 9, 2004

39. Current Research in Prehospital Care

Rocky Mountain Critical Care Transport Conference Denver, Colorado, May 6th, 2004

40. Blood Substitutes in the Field

Clinical Conference on Pre-Hospital Emergency Care, 2004 Orlando, Florida, July 10th, 2004

- 41. <u>Management of Potential C-spine Injuries: Clearance and Beyond.</u> 31st Annual Rocky Mountain Trauma and Emergency Medicine Conference Copper Mtn, Colorado. July 18th, 2004
- 41. <u>Mass Casualty and Disaster Management: The Columbine Shootings</u>. Grand Rounds, North Colorado Medical Center

Greeley, Colorado. September 14, 2004

42. Research in EMS and Trauma

12th Annual EMS and Trauma Grand Rounds Conference

Aurora, Colorado. September 15, 2004

43. Blood Substitutes in the Field: The Prehospital Trials

2004 Colorado State EMS Conference

Keystone, Colorado. November 5th, 2004

44. Cadaver Anatomy Lab: Dissection and Procedure Review on a Human

<u>Cadaver</u>. Preconference workshop, 2004 Colorado State EMS Conference Keystone, Colorado. November 5th, 2004

45. Prehospital Management of Trauma

32nd Annual Rocky Mountain Trauma and Emergency Medicine Conference Breckenridge, Colorado. June 14th, 2005

46. Difficult Airway Lecture/Lab

32nd Annual Rocky Mountain Trauma and Emergency Medicine Conference Breckenridge, Colorado. June 15th, 2005

47. Bleeding Disorders

32nd Annual Rocky Mountain Trauma and Emergency Medicine Conference Breckenridge, Colorado. June 15th, 2005

48. Travel-Related Infectious Disease

ACEP Scientific Assembly 2005

September 28th, Washington D.C.

49. The Hot Joint

ACEP Scientific Assembly 2005

September 29th, Washington D.C.

50. Mass Casualty and Disaster Management

Trauma and Critical Care Conference

San Juan Regional Medical Center, Farmington, New Mexico February 18th, 2006

51. Dialysis Related Emergencies

33rd Annual Rocky Mountain Trauma and Emergency Medicine Conference Breckenridge, Colorado. June 14th, 2006

52. Show Me Where it Hurts: Pain Management in the Field

33rd Annual Rocky Mountain Trauma and Emergency Medicine Conference Breckenridge, Colorado. June 15th, 2006

53. Environmental Emergencies

2006 Rocky Mountain Rural Trauma Symposium

September 14, 2006. Billings, Montana.

54. Drugs of Abuse

2006 Rocky Mountain Rural Trauma Symposium

September 15, 2006. Billings, Montana.

55. Cadaver Anatomy Lab: Dissection and Procedure Review on a Human

<u>Cadaver.</u> Preconference workshop, 2006 Colorado State EMS Conference Keystone, Colorado.

56. Dialysis-Related Emergencies

2006 Colorado State EMS Conference

November 3rd, 2006, Keystone, Colorado

57. High-Altitude Illness

2006 Colorado State EMS Conference

November 3rd, 2006. Keystone, Colorado

58. Drugs of Abuse

34th Annual Rocky Mountain Trauma and Emergency Medicine Conference Breckenridge, Colorado. June 20th, 2007

59. Environmental Emergencies

34th Annual Rocky Mountain Trauma and Emergency Medicine Conference Breckenridge, Colorado. June 22th, 2007

60. Ultrasound Use in the Acutely Traumatized Patient

Instuctor, Ultrasound Workshop

34th Annual Rocky Mountain Trauma and Emergency Medicine Conference Breckenridge, Colorado. June 22th, 2007

61. Jigawatts: Back to the Future of Electrical Injuries

American College of Emergency Physicians - Scientific Assembly, October 8-11, 2007. Seattle, Washington

62. What's Hot, What's Not: Hypo to Hyperthermia, and All Things in Between American College of Emergency Physicians - Scientific Assembly, October 8-11, 2007. Seattle, Washington

63. Environmental Emergencies

Colorado State EMS Conference, November 8th-11th, 2007 Keystone, Colorado

64. Cadaver Anatomy Lab: Dissection and Procedure Review.

Colorado State EMS Conference 2007 – Pre-conference Workshop Keystone, Colorado

65. Drugs of Abuse

Colorado Society of Osteopathic Medicine: The Medical "Home Improvements" Course. February 24th, 2008 Keystone, Colorado

66. Initial Evaluation of the Trauma Patient

Colorado Society of Osteopathic Medicine: The Medical "Home Improvements" Course. February 24th, 2008 Keystone, Colorado

67. Geriatric Trauma

 $35^{\rm th}$ Annual Rocky Mountain Trauma and Emergency Medicine Conference June $25^{\rm th},\,2008$

Breckenridge, CO

68. What's Hot, What's Not: Hypo to Hyperthemia and All Things in Between ACEP Scientific Assembly 2008, October 28th Chicago, II

69. Triage Out Debate: Efficient or Unethical?

ACEP Scientific Assembly 2008, October 28th Chicago, Il

70. Update in EMS Literature: What's Hot and What's Not

ACEP Scientific Assembly 2008, October 29th

Chicago, Il

71. Cadaver Disection Lab

2008 Colorado State EMS Conference, November 6th

Breckenridge, CO

72. Geriatric Trauma

2008 Colorado State EMS Conference, November 7th

Breckenridge, CO

73. Lessons Learned from the DNC

Colorado Front Range MMRS Hospital Response to a Mass Casualty

Incident, December 8th, 2008

Denver, CO

74. Lessons Learned from the DNC

The EMS State of the Sciences Conference: A Gathering of Eagles 2009

February 20th, 2009

Dallas, TX

75. Nightmare EMS Communications

The EMS State of the Sciences Conference: A Gathering of Eagles 2009

February 21st, 2009

Dallas, TX

76. Mass Casualty and Disaster Management

Trauma Perspectives 2009 (4/10/09)

Durango, CO

77. Airway Management and Pitfalls

Trauma Perspectives 2009 (4/10/09)

Durango, CO

78. Trauma Management

Integrated Clinicians Course (ICC) 7004

University of Colorado at Denver School of Medicine

May 5th, 2009

79. EMS Update, 2009

Grand Rounds, Beth Israel/Deaconess Department of Emergency Medicine May 6th, 2009

80. EMS Update – Panel Discussion

36th Annual Trauma and Emergency Medicine Conference

June 18th 2009, Breckenridge, CO

81. Trauma in Pregnancy

36th Annual Trauma and Emergency Medicine Conference

June 19th 2009, Breckenridge, CO

82. Cadaver Lab: Anatomical Dissection

2009 Colorado State EMS Conference

November 5th, Keystone, Colorado

83. Trauma in Pregnancy

2009 Colorado State EMS Conference

November 6th, Keystone, Colorado

84. Update in EMS Literature: What's Hot and What's Not

2009 Colorado State EMS Conference

November 6th, Keystone, Colorado

85. Lessons Learned from the DNC

International Preparedness and Response to Emergencies and Disasters (IPRED)

January 12th 2010

Tel Aviv, Israel

86. Geriatric Trauma

Second Annual BCFFA EMS Conference

January 23rd 2010, Boulder, Colorado

87. Pharmaceutical Restraints: A New Medication Approach to the Agitated Patient

The EMS State of the Sciences Conference: A Gathering of Eagles 2010 February 26th, 2010

Dallas, Tx

88. Transfer of the Rural Trauma Patient

Second Annual Western Colorado Trauma Conference

May 21st 2010, Delta, Colorado

89. <u>Moderator, EMS Medical Director Panel: "Refusal of Care in the Prehospital</u> Setting"

37th Annual Rocky Mountain Trauma and Emergency Medicine Conference June 17th 2010, Breckenridge, Colorado

90. Critical Issues in Triage

37th Annual Rocky Mountain Trauma and Emergency Medicine Conference June 18th 2010, Breckenridge, Colorado

91. Field Triage Guidelines: State of the Art or State of the Science?

ACEP Scientific Assembly 2010

September 28th, Las Vegas, Nevada

92. Less Lethal Force: An Emerging Problem in Prehospital Care

ACEP Scientific Assembly 2010

September 29th, Las Vegas, Nevada

93. Trauma Case Panel: Stump the Experts

Carlo Rosen (Moderator), Christopher B. Colwell MD, John Fildes MD, Julie A. Mayglothling MD.

ACEP Scientific Assembly 2010

September 29th, Las Vegas, Nevada

94. Critical Issues in Triage

Trauma and Critical Care Conference

October 22nd, 2010

Durango, Colorado

95. Trauma Panel Case Review

Christopher B. Colwell, Moderator

October 23rd, 2010

Durango, Colorado

96. Lightning and Electrical Emergencies

Trauma and Critical Care Conference

October 23rd, 2010

Durango, Colorado

97. Cadaver Dissection Lab

Colorado State EMS Conference 2010

November 4th, 2010

Keystone, Colorado

98. Accidental Hyper And Hypothermia And All Things In Between

Colorado State EMS Conference 2010

November 5th, 2010

Keystone, Colorado

99. Biophone Calls: The Good, The Bad, And The Ugly

Colorado State EMS Conference 2010

November 5th, 2010

Keystone, Colorado

Geocoding Cardiac Arrest in Denver

ECCU 2010 (Emergency Cardiac Care Update)

December 8th, 2010

San Diego, California

Management of the Agitated Patient

ECCU 2010 (Emergency Cardiac Care Update)

December 9th, 2010

San Diego, California

The Nose Knows: Intranasal Medication Options are Growing 102.

EMS State of the Sciences: A Gathering of Eagles XIII 2011

February 26th, 2011

UT Southwestern Medical Center, Dallas, Texas

Beyond Agitated Delirium: Dealing with the Issue of In-Custody Deaths 103.

The EMS State of the Sciences: A Gathering of Eagles XIII 2011 February 26th, 2011

UT Southwestern Medical Center, Dallas, Texas

ED Operations 101: Follow the Money 104.

Council of Emergency Medicine Residency Directors (CORD) Academic Assembly 2011 (March 4th)

San Diego, California

CPR, Defibrillation, and Drugs: What is the right VF mix? 105.

EMS Regional Conference: Resuscitation Excellence

May 15th, 2011

New York, New York

Instructions.

EMS Regional Conference: Resuscitation Excellence

May 15th, 2011

New York, New York

107. Moderator – Panel Discussion: Optimizing Colorado's Trauma System

106. We Don't Need No Stinking Breaths! Compressions Only Pre-Arrival

38th Annual Rocky Mountain Trauma and Emergency Medicine Conference

June 22nd, 2011

Breckenridge, Colorado

108. Pitfalls in Trauma Care

38th Annual Rocky Mountain Trauma and Emergency Medicine Conference June 24th, 2011

Breckenridge, Colorado

109. <u>Deleterious Delirium Deliberations: Modern Pitfall is Managing Agitated</u>

EMS Patients

Advanced EMS Practitioner's Forum and Workshop

ACEP Scientific Assembly

October 14th, 2011

San Francisco, California

110. Certifiable Behaviors: Preparing for EMS Subspecialty Board

Certification

Advance EMS Practitioner's Forum and Workshop

ACEP Scientific Assembly

October 14th, 2011

San Francisco, California

111. Cadaver Dissection and Anatomy Lab

Colorado State EMS Conference 2011

November 3rd, 2011

Keystone, Colorado

112. On the Wings of Eagles: Hot Topics in EMS

Colorado State EMS Conference 2011

November 4th, 2011

Keystone, Colorado

113. <u>Droperidol for Agitation</u>

Advanced Topics in Medical Direction

NAEMSP National Meeting, 2012

January 11th, 2012

Tucson, Arizona

114. Trauma in Pregnancy

Children's Hospital EMS Conference

Aurora, Colorado

January 20th, 2012

115. Withdrawing Support: A Prehospital Protocol for Alcohol Withdrawal

EMS State of the Science: A Gathering of Eagles XIV

February 24th, 2012

Dallas, Texas

116. A Sanguine Approach: The Use of Blood Products and Substitutes in the

Field

EMS State of the Science: A Gathering of Eagles

February 24th, 2012

Dallas, Texas

117. Blast Injuries

1st Annual Trauma Symposium

March 15th, 2012

Burlington, Colorado

118. Rural Trauma

1st Annual Trauma Symposium

March 15th, 2012

Burlington, Colorado

119. Trauma in Pregnancy

2012 NE Colorado EMS Symposium

April 21st, 2012

Fort Morgan, Colorado

120. Hemorrhage Control in the Field: Tourniquets and Beyond

Grand Rounds – St. Mary's and Convent Health Care/Synergy Medical Center Hospitals

May 10th, 2012

Saginaw, Michigan

121. Mass Casualty and Disaster Management

Invited Lecture - Convent Health Care/Synergy Medical Center

April 21st, 2012

Saginaw, Michigan

122. <u>Trauma in Pregnancy</u>

39th Annual Rocky Mountain Trauma and Emergency Medicine Conference June 29th, 2012

Breckenridge, Colorado

123. Taking it on the QT: What are the Cardiac Effects of Sedation Practices?

Emergency Cardiac Care Update (ECCU) 2012

Pre-conference Workshop

September 12th, 2012

Orlando, Florida

124. Withdrawing Support: Managing Alcohol Withdrawal in the Field

Emergency Cardiac Care Update (ECCU) 2012

Pre-conference Workshop

September 12th, 2012

Orlando, Florida

125. <u>Making Waves Diagnostically: Identifying Subtle Critical Emergencies</u>

with Capnography

Emergency Cardiac Care Update (ECCU) 2012

Conference Session – Eagles: State of the Science

September 13th, 2012

Orlando, Florida

126. Two Carbon Fragmentations: A Prehospital Protocol for Ethanol

Withdrawal.

2012 ACEP Advanced EMS Practitioners' Forum and Workshop

October 7th, 2012

Denver, Colorado

127. How to Break the Ache: 2012 Approaches to Prehospital Pain Control

2012 ACEP Advanced EMS Practitioners' Forum and Workshop

October 7th, 2012

Denver, Colorado

128. <u>I'd Scan That! Effective Diagnostic Trauma Imaging</u>

ACEP Scientific Assembly

October 9th, 2012

Denver, Colorado

129. Evidence-Based Minor Trauma Management

ACEP Scientific Assembly

October 9th, 2012

Denver, Colorado

130. Trauma Talk: The Latest and the Greatest Trauma Literature

ACEP Scientific Assembly

October 10th, 2012

Denver, Colorado

131. The Combative, Uncooperative, Arrested, and Threatening Trauma

Patient: A Legal, Ethical, and Medical Minefield

ACEP Scientific Assembly

October 10th, 2012

Denver, Colorado

132. MCI Medical Response: Are We Prepared?

Denver Health Critical Care Conference

October 12th, 2012

Denver, Colorado

133. The Colorado Shootings: Lessons Learned from Mass Casualty Events

Grand Rounds – Beth Israel/Deaconess Medical Center

November 7th, 2012

Boston, Massachusetts

134. The Colorado Shootings: Lessons Learned from Mass Casualty Events

Keynote Speaker: Hillsborough County Medical Association

November 13th, 2012

Tampa Bay, Florida

135. The Colorado Shootings: Lessons Learned on Disaster Management and

Mass Casualty Events

Grand Rounds: Scripps Memorial Hospital

December 11th, 2012

La Jolla, California

136. EMS in the Cross-Hairs: The Columbine, Aurora and Safeway Shootings

EMS State of the Science: A Gathering of Eagles XV

February 22nd, 2013

Dallas, Texas

137. Oh, What a Relief It Is! Revisiting Pain Medication Use in EMS

EMS State of the Science: A Gathering of Eagles XV

February 22nd, 2013

Dallas, Texas

138. ED Operations 101: Follow the Money

Council of Emergency Medicine Residency Directors (CORD)

Academic Assembly 2013

March 7th, 2013

Denver, Colorado

139. <u>Disaster Planning & Response: Lessons Learned from the Colorado</u> Shootings

Trauma, Critical Care, and Acute Care Surgery 2013 – Medical Disaster Response

March 17th, 2013

Las Vegas, Nevada

140. <u>Case Management Interactive Session: Practical Issues & Dilemmas in</u> Mass Casualty Preparedness

Trauma, Critical Care, and Acute Care Surgery 2013 – Medical Disaster Response

March 17th, 2013

Las Vegas, Nevada

141. Trauma Surgeons Emergency Physicians and Trauma Care

Trauma, Critical Care, and Acute Care Surgery 2013

March 20th, 2013

Las Vegas, Nevada

142. <u>Mass Casualty and Disaster Management – The Colorado Shootings</u>

Visiting Professorship/Grand Rounds

Southern Illinois University School of Medicine

April 18th, 2013

Springfield, Illinois

143. Mass Casualty and Disaster Management – The Colorado Shootings

Sangamon County Medical Society

April 18th, 2013

Springfield, Illinois

144. <u>Lessons Learned from the Colorado Shootings</u>

12th Annual Trauma Symposium

Mississippi Coastal Trauma Region

May 1st, 2013

Biloxi, Mississippi

145. Mass Casualty and Disaster Management – The Colorado Shootings

Grand Rounds – Indiana University Hospital-Methodist

May 10th, 2013

Indianapolis, Indiana

146. Prehospital Panel

Moderator

40th Annual Rocky Mountain Trauma & Emergency Medicine

Conference

June 27th, 2013

Breckenridge, Colorado

147. Environmental Emergencies

40th Annual Rocky Mountain Trauma & Emergency Medicine Conference June 28th. 2013

Breckenridge, Colorado

148. Lessons Learned from the Colorado Shootings

Case 8:17-6:v100764814L91/127E2030cUnieht5765464Filekt53725/49-16age98676f96298age ID #:1885

43rd Annual Wyoming Trauma Conference

August 16th, 2013

Cheyenne, Wyoming

149. Oh What a Relief It Is: Evolving Trends in Prehospital Pain Management IAFF Advanced EMS Practitioners, Chiefs, & Medical Directors Forum August 24th, 2013

Denver, Colorado

150. EMS in the Cross-Hairs: The Columbine, Aurora, and Safeway Shootings IAFF Advanced EMS Practitioners, Chiefs, & Medical Directors Forum August 24th, 2013

Denver, Colorado

151. The Reality of the New Specialty: What Will Be the Impact of the New EMS Boards for Fire?

IAFF Advanced EMS Practitioners, Chiefs, & Medical Directors Forum August 24th, 2013

Denver, Colorado

152. I'd Scan That!: Use of CT Scans in Trauma Care

Grand Rounds – University of Wisconsin School of Medicine August 29th, 2013

Madison, Wisconsin

153. Evidence-Based Minor Trauma Management

Grand Rounds – University of Wisconsin School of Medicine August 29th, 2013

Madison, Wisconsin

154. Mass Casualty and Disaster Management: EMS Lessons from the

Colorado Shootings

EMS World Expo 2013

September 11th, 2013

Las Vegas, Nevada

155. 2013 Approaches to Pain Management and Sedation

EMS World Expo 2013

September 11th, 2013

Las Vegas, Nevada

156. Mass Casualty and Disaster Management: Lessons Learned from the

Colorado Shootings

DuPage County Medical Society Annual Meeting

October 9th, 2013

Chicago, Illinois

157. Mass Casualty Management: The Colorado Shootings

Northern Colorado Emergency and Trauma Care Symposium

October 11th, 2013

Loveland, Colorado

158. The Combative, Uncooperative, Arrested and Threatening Trauma Patient:

A Legal, Ethical and Medical Minefield!

ACEP Scientific Assembly 2013

October 15th, 2013

Seattle, Washington

159. Skip the Scan! Effective Diagnostic Trauma Imaging

ACEP Scientific Assembly 2013

October 16th, 2013

Seattle, Washington

160. <u>I Survived: Domestic Disasters – Lessons Learned from the Trenches</u>

ACEP Scientific Assembly 2013

October 16th, 2013

Seattle, Washington

161. Managing Ballistic Injuries in the Pre-Hospital Setting

World Extreme Medicine Expo 2013

Harvard Medical School

October 28th, 2013

Boston, Massachusetts

162. <u>Cadaver Lab – Trauma Proc</u>edures

Colorado State EMS Conference 2013

November 7th, 2013

Keystone, Colorado

163. Mass Casualty and Disaster Management: Lessons Learned from the

Colorado Shootings

2013 Trauma and Critical Care Conference

November 8th, 2013

Durango, Colorado

164. Mass Casualty and Disaster Management: The Colorado Shootings

Lake County Medical Society Annual Meeting

December 3rd, 2013

Chicago, Illinois

165. Myths in Trauma Care

Yampa Valley Medical Center Trauma Conference

November 15th, 2013

Steamboat Springs, Colorado

166. Myths in Pediatric Care

The Brian Schimpf Memorial Prehospital Pediatric Care Conference February 8th, 2014.

Denver, Colorado

167. Child-Like Behaviors: 10 Myths of EMS Pediatric Care

EMS State of the Science: A Gathering of Eagles XVI

February 28th, 2014

Dallas, Texas

168. Epidemic Proportions: Dosing Ketamine in the Era of Mamba Dramas

EMS State of the Science: A Gathering of Eagles XVI

March 1st, 2014

Dallas, Texas

169. Covering Mental Illness and Violence

Health Journalism 2014 (Association of Health Care Journalism)

March 29th, 2014

Denver, Colorado

170. Wound Management: How Do you Manage Cuts and Burns

American College of Emergency Physicians (ACEP) Advanced Practice Provider Academy

April 15th, 2014

San Diego, CA

171. Evaluation of Patients with Blunt Multiple Trauma and Penetrating

Trauma: A Systematic Approach

American College of Emergency Physicians (ACEP) Advanced Practice Provider Academy

April 15th, 2014

San Diego, CA

Preparedness Put to the Test: Lessons Learned from Major Events to 172.

Guide Hospital Disaster Preparedness

Medical World Americas Conference and Expo

April 28th, 2014

Houston, TX

Myths in Trauma Care 173.

13th Annual MS Coastal Trauma Symposium

May 14th, 2014

Biloxi, MS

174. Anxiolysis for the Cardiac Care Provider: Easy Choices for Sedation in **Emergency Care**

Emergency Cardiac Care Update (ECCU), EMS Preconference Workshop June 3rd, 2014

Las Vegas, NV

175. Taking it on the QT: What are the Cardiac Effects of Sedation Practices?

Emergency Cardiac Care Update (ECCU), EMS Preconference Workshop June 3rd, 2014

Las Vegas, NV

Anxiolysis for the Cardiac Care Provider: Easy Choices for Sedation in 176.

Emergency Care

Emergency Cardiac Care Update (ECCU), 2014 Citizens CPR

Foundation: Clinical Solutions and Best Practices for EMS

June 4th, 2014

Las Vegas, NV

Taking it on the QT: What are the Cardiac Effects of Sedation Practices? 177.

Emergency Cardiac Care Update (ECCU), 2014 Citizens CPR

Foundation: Clinical Solutions and Best Practices for EMS

June 4th. 2014

Las Vegas, NV

Hyperfibrinolysis, Physiologic Fibrinolysis, and Fibrinolysis Shutdown: 178.

The Spectrum of Postinjury Fibrinolysis and Relevance to Antifibrinolytic

Moderator - Denver Health Trauma Services Continuing Education Series June 25th, 2014

Denver, CO

179. Myths in Pediatric Emergency Care

 $41^{\rm st}$ Annual Rocky Mountain Trauma and Emergency Medicine Conference July $9^{\rm th},\,2014$

Breckenridge, CO

180. <u>The Combative, Uncooperative, Intoxicated Patient: An Ethical, Moral and Legal Dilemma</u>

 $41^{\rm st}$ Annual Rocky Mountain Trauma and Emergency Medicine Conference July $11^{\rm th},\,2014$

Breckenridge, CO

181. Myths in Pediatric Care

2014 University of Colorado Health and Denver Health Trauma Consortium:

Acute Care Surgery, Trauma, and EMS Conference

August 23rd, 2014

Colorado Springs, CO

182. Rural Trauma Care

Great Plains Trauma Conference

September 18th, 2014

North Platte, Nebraska

183. How to Break the Ache: 2014 Ways to Manage Prehospital Analgesia and Sedation

Advanced EMS Practitioner's Forum and Workshop

ACEP 2014

October 26th, 2014

Chicago, Illinois

184. No Small Lie: Debunking Myths in Pediatric EMS Care

Advanced EMS Practitioner's Forum and Workshop

ACEP 2014

October 26th, 2014

Chicago, Illinois

185. The Combative, Uncooperative, Arrested, and Threatening Trauma Patient: A Legal, Ethical, and Medical Minefield!

American College of Emergency Physicians (ACEP) Scientific Assembly 2014

October 27th, 2014

Chicago, Illinois

186. <u>Cruising the Literature: The Most Influential EMS Articles of 2014</u>

American College of Emergency Physicians (ACEP) Scientific Assembly 2014

October 28th, 2014

Chicago, Illinois

187. Tales from the Rig: EMS Medical Director Words of Wisdom

American College of Emergency Physicians (ACEP) Scientific Assembly 2014

October 28th, 2014

Chicago, Illinois

188. <u>Imagine a World Without Backboards? Controversies in Spinal</u>

Immobilization

American College of Emergency Physicians (ACEP) Scientific Assembly 2014

October 28th, 2014

Chicago, Illinois

189. Disaster Management: Lessons Learned from the Colorado Shootings

Keynote Address: 9th Annual NORTN Regional Trauma Conference

November 7th, 2014

Akron General Hospital, Akron, Ohio

190. The Combative, Uncooperative, Arrested, and Threatening Trauma

Patient: A Legal, Ethical, and Medical Minefield!

9th Annual NORTN Regional Trauma Conference

November 7th, 2014

Akron General Hospital, Akron, Ohio

191. Ketamine for Excited Delirium

EMS World Expo

November 11th, 2014

Nashville, TN

192. 10 Myths of EMS Pediatric Care

EMS World Expo

November 11th, 2014

Nashville, TN

193. Biophone Communications

EMS World Expo

November 11th, 2014

Nashville, TN

194. EMS Medical Director Panel

EMS World Expo

November 12th, 2014

Nashville, TN

195. The Combative, Uncooperative, Arrested, and Threatening Trauma

Patient: A Legal, Ethical, and Medical Minefield!

Boulder Community Hospital/AMR EMS Conference 2014

December 6th, 2014

Boulder, CO

196. Special K: Ketamine in EMS

7th Annual Advanced Topics in Medical Direction

NAEMSP 2015

January 20th, 2015

New Orleans, LA

197. First it was Backboards, now C-Collars

EMS State of the Science: A Gathering of Eagles XVII

February 20th, 2015

Dallas, TX

198. Taking it to the Streets! Prehospital Infusion of Plasma

EMS State of the Science: A Gathering of Eagles XVII

February 20th, 2015

Dallas, TX

199. Street Fighting Man! When the Combative Patient is Refusing Transport

EMS State of the Science: A Gathering of Eagles XVII

February 21st, 2015

Dallas, TX

200. A Hurt-Full Remark: Supporting Ketamine Use for Pain Management

EMS State of the Science: A Gathering of Eagles XVII

February 21st, 2015

Dallas, TX

201. Imagine a World Without Backboards? Controversies in Spinal

Immobilization

2nd Annual Brain Schimpf Memorial Pediatric EMS Conference

February 28th, 2015

Denver, CO

202. Providing for the Providers: Impact of Traumatic Events on Providers

Keynote address: Colorado CPR Association Annual Meeting

April 30th, 2015

Denver, CO

203. <u>Mass Casualty and Disaster Management: Lessons Learned from the</u> Colorado Shootings

North Trauma Care Region 2015 Trauma Symposium

May 8th, 2015

Tupelo, MS

204. Management of Excited Delirium in the Era of Legalized Marijuana

Vanderbilt Residency in Emergency Medicine

May 19th, 2015

Nashville, TN

205. Mass Casualty and Disaster Management: Lessons Learned from the

Colorado Shootings

Grand Rounds Presentation, Vanderbilt University School of Medicine

May 19th, 2015

Nashville, TN

206. <u>Active Shooter – Prehospital Forum (Moderator)</u>

 $42^{nd}\ Annual\ Rocky\ Mountain\ Trauma\ and\ Emergency\ Medicine\ Conference$

June 19th, 2015

Vail, Colorado

207. Imagine a World without Backboards

42nd Annual Rocky Mountain Trauma and Emergency Medicine Conference

June 20th, 2015

Vail. Colorado

208. Mass Casualty and Disaster Management: Lessons Learned from the

Colorado Shootings

Ohio EMS Lecture Series – Keynote address

August 20th, 2015

Akron, Ohio

209. Myths in Pediatric Care

Grand Rounds, Deaconess Regional Trauma Center

EMS Trauma Symposium

September 9th, 2015

Evansville, Indiana

210. Plasma Administration in the Field: The COMBAT Trial

World Trauma Symposium

September 16th, 2015

Las Vegas, Nevada

211. The Combative, Uncooperative, Intoxicated Trauma Patient: A Medical,

Legal, and Ethical Nightmare!

EMS World

September 17th, 2015

Las Vegas, Nevada

212. The Medical Impact of Marijuana Legalization

EMS World

September 17th, 2015

Las Vegas, Nevada

213. How to Deploy a New Toy for Every Girl and Boy: Implementing a

Simpler System for Treating Children

ACEP 2015 Scientific Assembly Advanced EMS Practitioners Forum and Workshop

October 25th, 2015

Boston, Massachusetts

214. For the Life of all Flesh is the Blood Thereof! Prehospital Use of Blood

Products and Systemic Bleeding Control

ACEP 2015 Scientific Assembly Advanced EMS Practitioners Forum and Workshop

October 25th, 2015

Boston, Massachusetts

215. Trauma STAT! Don't Miss the Visual Cue

ACEP Scientific Assembly 2015

October 28th, 2015

Boston, Massachusetts

216. The Combative, Uncooperative Trauma Patient

ACEP Scientific Assembly 2015

October 28th, 2015

Boston, Massachusetts

217. How to Deploy a New Toy for Every Girl and Boy: Implementing a Simpler System for Treating Children

EAGLES – Best Practices in Street Medicine: Implementing the New

Guidelines and Several Exceptional Innovations in Out-of-Hospital

Emergency Cardiac Care

ECCU (Emergency Cardiovascular Care Update) 2015

December 9th, 2015

San Diego, California

218. Anxiolysis in Emergency Cardiac Care: 2015 Approaches to Safe Sedation

EAGLES – Best Practices in Street Medicine: Implementing the New Guidelines and Several Exceptional Innovations in Out-of-Hospital

Emergency Cardiac Care

ECCU (Emergency Cardiovascular Care Update) 2015

December 9th, 2015

San Diego, California

219. Latest Drugs of Abuse: The Impact of Legalization of Marijuana and

Testing of EMS Personnel

EMS Today (JEMS Conference and Exposition

February 25th, 2016

Baltimore, Maryland

220. Chemical Suicides

EMS Today (JEMS Conference and Exposition)

February 25th, 2016

Baltimore, Maryland

221. <u>Lightning Rounds: Ask the Eagles</u>

EMS Today (JEMS Conference and Exposition)

February 26th, 2016

Baltimore, Maryland

222. Deliriously Yours: 2016 Approaches to Managing the Toxic Patients

First There First Care Regional EMS Conference

May 26th, 2016

Broward County, Florida

223. Promoting Post-Traumatic Provider Protection: Dealing with Depression,

Anxiety, and Stress in EMS

First There First Care Regional EMS Conference

May 26th, 2016

Broward County, Florida

224. There Will Be Blood in the Streets: On-Scene Use of Plasma, Cells and

Other Clot-Musters

First There First Care Regional EMS Conference

May 26th, 2016

Broward County, Florida

225. Trauma in Pregnancy

43rd Annual Rocky Mountain Trauma and Emergency Medicine Conference June 18th, 2016

Denver, Colorado

226. Mass Casualty and Disaster Management: Lessons Learned from the

Colorado Shootings

Zuckerberg San Francisco General Hospital and Trauma Center Department of Medicine Grand Rounds

September 6th, 2016

San Francisco, California

227. <u>Primum Non Nocere – to Yourself: Responding to the Malicious Mayhem of Mentally-ill Menaces</u>

2016 ACEP Scientific Assembly – Advanced EMS Practitioner's Forum and Workshop

October 15th, 2016

Las Vegas, Nevada

228. No Child (or Adult) Left Behind? The Complexities of Patient Refusal & Non-Transport Decisions

2016 ACEP Scientific Assembly – Advanced EMS Practitioner's Forum and Workshop

October 15th, 2016

Las Vegas, Nevada

229. Taking the Pressure Off Sedation: Why Ketamine is My Pet Amine

2016 ACEP Scientific Assembly – Advanced EMS Practitioner's Forum and Workshop

October 15th, 2016

Las Vegas, Nevada

230. Beyond the MVC: Burned, Blasted, and Bolted Trauma Victims

2016 ACEP Scientific Assembly

October 16th, 2016

Las Vegas, Nevada

231. Fast Facts: Let's Chat About Trauma

2016 ACEP Scientific Assembly

October 16th, 2016

Las Vegas, Nevada

232. The Combative, Uncooperative, Trauma Patient

2016 ACEP Scientific Assembly

October 16th, 2016

Las Vegas, Nevada

233. Managing the Malicious Mayhem from Mentally Ill Menaces: The

Evolving Roles of EMS in Active Shooter Incidents

41st Annual Alaska EMS Symposium

November 4th, 2016

Anchorage, Alaska

234. Grass Roots Experience with Swedish Fish: A Token Presentation on

Marijuana Legalization

41st Annual Alaska EMS Symposium

November 4th, 2016

Anchorage, Alaska

235. Promoting Post-Traumatic Provider Protection: Dealing with Depression,

Anxiety, and Stress in EMS

41st Annual Alaska EMS Symposium

November 4th, 2016

Anchorage, Alaska

236. Minding Your P's and Q's: What are the Actual Cardiac Effects of

Sedation Practices?

41st Annual Alaska EMS Symposium

November 4th, 2016

Anchorage, Alaska

237. <u>It's No Small Matter: Implementing a Simpler System for Treating</u> Children

41st Annual Alaska EMS Symposium

November 4th, 2016

Anchorage, Alaska

238. Calling a Code Alert on our Mental Health: Suicide in EMS

2017 NAEMSP Annual Meeting and Scientific Assembly

January 26th, 2017

New Orleans, Louisiana

239. Child Abuse

2017 Iowa Emergency Medical Services Association Pediatric Conference February 25th, 2017

Des Moines, Iowa

240. Apparent Life-Threatening Events

2017 Iowa Emergency Medical Services Association Pediatric Conference February 25th, 2017

Des Moines, Iowa

241. Impact of Marijuana Legalization

2017 Iowa Emergency Medical Services Association Pediatric Conference February 25th, 2017

Des Moines, Iowa

242. Myths in Pediatric Care

2017 Iowa Emergency Medical Services Association Pediatric Conference February 25th, 2017

Des Moines, Iowa

243. <u>Traumatic Shock</u>

UCSF High Risk Emergency Medicine Conference

April 9th, 2017

Maui, Hawaii

244. Penetrating Abdominal Trauma

UCSF High Risk Emergency Medicine Conference

April 9th, 2017

Maui, Hawaii

245. The Combative, Intoxicated Trauma Patient: A Medical, Legal, and

Ethical Conundrum!

UCSF High Risk Emergency Medicine Conference

April 9th, 2017

Maui, Hawaii

246. Geriatric Trauma

UCSF High Risk Emergency Medicine Conference

April 9th, 2017

Maui, Hawaii

247. Accidental Hypothermia

Case 8:19 46: 10 05 140 4 L 9 1/10 1/20 20 30 climient 576-26 27: 10 kg 10 3/25/24 - 1 Page 96 26 96 96 24 age 10 #:1895

Wilderness Medicine: Avoiding and Managing Outdoor Medical Emergencies UCSF Wilderness Medicine Medical School Elective and Mini Medical

School for the Public

April 26th, 2017

San Francisco, California

High Altitude Illness

Wilderness Medicine: Avoiding and Managing Outdoor Medical Emergencies UCSF Wilderness Medicine Medical School Elective and Mini Medical

School for the Public

April 26th, 2017

San Francisco, California

249. Managing the Crashing, Combative Trauma Patient

High Risk Emergency Medicine San Francisco

June 1st, 2017

San Francisco, California

250. Imaging in Trauma

High Risk Emergency Medicine San Francisco

June 1st, 2017

San Francisco, California

Safe Sedation in the Era of Legalized Marijuana

National EMS Safety Summit

August 21st, 2017

Denver, Colorado

Safety in EMS – Panel Discussion 252.

National EMS Safety Summit

August 22nd, 2017

Denver, Colorado

253. Lessons Learned from Active Shooter Scenarios

6th Annual Medical-Legal Forum

Mile High Regional Medical and Trauma Advisory Council

September 28th, 2017

Lakewood, Colorado

254. Integration and Challenges of Local, State and Federal Medical Surge

Resources – Perspectives on the SFFW Full Scale Exercise and Asset

Integration

Panelist – Medical Peer to Peer Exchange Seminar

San Francisco Fleet Week 2017

October 4th, 2017

San Francisco, California

Trauma STAT! Don't Miss This Visual Cue!

American College of Emergency Physicians (ACEP) Scientific Assembly October 31st, 2017

Washington D.C.

FAST FACTS: Let's Chat About Adult Trauma 256.

American College of Emergency Physicians (ACEP) Scientific Assembly October 31st, 2017

Washington D.C.

257. Advanced Wound Care Closure in the ED: Putting the Pieces Back

<u>Together</u>

American College of Emergency Physicians (ACEP) Scientific Assembly October 31st, 2017

Washington D.C.

258. <u>Pediatric Resuscitation is No Small Matter: 2017 Approaches to Managing</u> Cardiac Events in Children

Emergency Cardiovascular Care Update (ECCU) 2017

December 5th, 2017

New Orleans, Louisiana

259. <u>De-MS in EMS: Fentanyl versus Morphine for Chest Pain Management</u>

Emergency Cardiovascular Care Update (ECCU) 2017

December 5th, 2017

New Orleans, Louisiana

260. Toxic Remarks: Case Studies of Cardiac Effects of Drugs of Abuse

Emergency Cardiovascular Care Update (ECCU) 2017

December 6th, 2017

New Orleans, Louisiana

261. <u>Mass Casualty and Disaster Management: Lessons Learned from the</u> Colorado Shootings

Grand Rounds – University of Michigan Department of Emergency Medicine January 10th, 2018

Ann Arbor, Michigan

262. Better Mind Your P's and Q;s: Subtle Cardiac Effects of Drugs of Abuse

EMS State of the Science: A Gathering of Eagles XX

March 2nd, 2018

Dallas, Texas

263. <u>DeMSing EMS: Why I'd Get Rid of Morphine Sulfate</u>

EMS State of the Science: A Gathering of Eagles XX

March 3rd, 2018

Dallas, Texas

264. A Grass Roots Experience: The Medical Implications of Marijuana

Legalization in Colorado

ZSFG Medicine Grand Rounds

March 27th, 2018

San Francisco, California

265. Pitfalls in the Trauma Airway

UCSF High Risk Emergency Medicine Hawaii

April 9th, 2018

Maui, Hawaii

266. Challenging Trauma Case Panel

Moderator

UCSF High Risk Emergency Medicine

April 11th, 2018

Maui, Hawaii

267. Pitfalls in Patients with Stab Wounds

UCSF High Risk Emergency Medicine Hawaii

April 10th, 2018

Maui, Hawaii

268. Pitfalls in the Patient Found Down

UCSF High Risk Emergency Medicine Hawaii

April 10th, 2018

Maui, Hawaii

269. The Combative, Uncooperative Trauma Patient

SEMPA 360 – Society of Emergency Medicine Physician Assistants National Assembly

May 5th, 2018

San Antonio, Texas

270. Mass Casualty: Lessons Learned from the Colorado Shootings

SEMPA 360 – Society of Emergency Medicine Physician Assistants National Assembly

May 5th, 2018

San Antonio, Texas

271. The Medical Impact of Marijuana Legalization

SEMPA 360 – Society of Emergency Medicine Physician Assistants National Assembly

May 5th, 2018

San Antonio, Texas

272. <u>Update on Urologic Emergencies</u>

Moderator – Panel Discussion on Testicular Torsion, Priapism, and Penile Fracture

American Urological Association (AUA) Annual Meeting 2018

May 20th, 2018

San Francisco, California

273. Assessing Capacity in the Intoxicated Trauma Patient

Keynote Address – 45th Annual Rocky Mountain Trauma and Emergency Medicine Conference

June 7th, 2018

Vail, Colorado

274. Pitfalls in Patients with Stab Wounds

 45^{th} Annual Rocky Mountain Trauma and Emergency Medicine Conference June $8^{\text{th}}, 2018$

Vail, Colorado

275. Trauma Panel of Experts

45th Annual Rocky Mountain Trauma and Emergency Medicine Conference June 8th, 2018

Vail. Colorado

276. Cruising the Literature: Trauma 2018

American College of Emergency Physicians (ACEP) National Scientific

Assembly 2018

October 2nd, 2018

San Diego, California

277. Fast Facts: Let's Chat about Adult Trauma

American College of Emergency Physicians (ACEP) National Scientific Assembly 2018

October 2nd, 2018

San Diego, California

278. ED Thoracotomy: When, Who, and How

American College of Emergency Physicians (ACEP) National Scientific Assembly 2018

October 3rd, 2018

San Diego, California

279. Clear as Mud: C-Spine Clearance 2018

American College of Emergency Physicians (ACEP) National Scientific Assembly 2018

October 3rd, 2018

San Diego, California

Certifications

- NRP, 2009
- ATLS, 2003
 - ATLS Instructor
 - November 18th, 2016
 - July 23rd, 2017
 - June 25th, 2018
- ACLS, 1996
- PALS, 1994
- ATLS instructor, 2010 present
- BLS, 2016

Media

- Tales From the Front Lines San Francisco Magazine September, 2017
- How to Control Bleeding The New York Times Magazine April 22nd, 2018
- Skinned Knees to Broken Heads: Tracking Scooter Injuries The New York Times – August 3rd, 2018
- Interview NBC Scooter injuries August 8th, 2018
- Interview San Francisco Chronicle Scooter Injuries August 11th, 2018

Additional Activities

- President, Sigma Phi Epsilon fraternity, Ann Arbor, MI 1987-1988 Active Member: 1984-1988
- Varsity Tennis, University of Michigan, Ann Arbor, MI 1984-1988
 Big Ten Team Champions: 1985, 1986, 1988. NCAA Team
 Semifinals: 1988
- Psi Chi Honor Society 1987-1988
- Captain, Varsity Tennis Team, La Jolla High School, La Jolla, CA
- Michigan Alumnae Scholarship recipient, San Diego Chapter 1984-1985

Languages Fluent in Spanish

Exhibit 5

XAVIER BECERRA
Attorney General of California
MARK R. BECKINGTON
Supervising Deputy Attorney General
JOHN D. ECHEVERRIA
Deputy Attorney General
State Bar No. 268843
PETER H. CHANG
Deputy Attorney General
State Bar No. 241467
455 Golden Gate Avenue, Suite 11000
San Francisco, CA 94102-7004
Telephone: (415) 703-5939
Fax: (415) 703-1234
E-mail: Peter.Chang@doj.ca.gov

Attorneys for Defendant Xavier Becerra

IN THE UNITED STATES DISTRICT COURT FOR THE CENTRAL DISTRICT OF CALIFORNIA

SOUTHERN DIVISION

STEVEN RUPP; STEVEN DEMBER; CHERYL JOHNSON; MICHAEL JONES; CHRISTOPHER SEIFERT; ALFONSO VALENCIA; TROY WILLIS; DOUGLAS GRASSEY; DENNIS MARTIN; and CALIFORNIA RIFLE & PISTOL ASSOCIATION, INCORPORATED,

Plaintiffs,

VS.

XAVIER BECERRA, in his official capacity as Attorney General of the State of California; and DOES 1-10,

Defendants.

CASE NO.: 8:17-cv-00746-JLS-JDE

EXPERT REPORT OF LUCY P. ALLEN

Action Filed: April 24, 2017

I. SCOPE OF ASSIGNMENT

1. I have been asked by the Office of the Attorney General of California to analyze the use of assault weapons (as defined under California law), including assault rifles, in public mass shootings. In addition, I have been asked to analyze the use of large-capacity magazines (magazines capable of holding more than ten rounds) in public mass shootings, particularly as they are used in conjunction with assault weapons in such mass shootings.

II. QUALIFICATIONS AND REMUNERATION

A. Qualifications

- 2. I am a Managing Director of NERA Economic Consulting ("NERA"), a member of NERA's Securities and Finance Practice and Chair of NERA's Product Liability and Mass Torts Practice. NERA provides practical economic advice related to highly complex business and legal issues arising from competition, regulation, public policy, strategy, finance, and litigation. NERA was established in 1961 and now employs approximately 500 people in more than 20 offices worldwide.
- 3. In my over 20 years at NERA, I have been engaged as an economic consultant or expert witness in numerous projects involving economic and statistical analysis. I have been qualified as an expert and testified in court on various economic and statistical issues relating to the flow of guns into the criminal market. I have testified at trials in Federal District Court, before the New York City Council Public Safety Committee, the American Arbitration Association and the Judicial Arbitration Mediation Service, as well as in depositions.
- 4. I have an A.B. from Stanford University, an M.B.A. from Yale University, and M.A. and M. Phil. degrees in Economics, also from Yale University. Prior to joining NERA, I was an Economist for both President George H. W. Bush's and President Bill Clinton's Council

1

¹ It is my understanding that the primary provisions of California law that are relevant to this case are: California Penal Code sections 30510 and 30515, and California Code of Regulations, title 11, section 5499. See, for example, California Department of Justice: "What is considered an assault weapon under California law?" and "What are AK and AR-15 series weapons?" https://oag.ca.gov/firearms/regagunfags, accessed October 25, 2018.

of Economic Advisers. My resume with recent publications and testifying experience is included as Appendix A.

B. Remuneration

5. NERA is being compensated for time spent by me and my team at standard billing rates and for out-of-pocket expenses at cost. NERA currently bills for my time at \$900 per hour. NERA's fees are not in any way contingent upon the outcome of this matter.

III. MATERIALS CONSIDERED

- 6. In preparing this report, I considered the following materials, in addition to the materials cited in attached Appendix B and Appendix C:
- a) Third Amended Complaint for Declaratory and Injunctive Relief, filed June 27, 2018 ("Complaint");
- b) California Department of Justice: "What is considered an assault weapon under California law?" and "What are AK and AR-15 series weapons?" https://oag.ca.gov/firearms/regagunfaqs, accessed October 25, 2018;
- c) Mother Jones: "US Mass Shootings, 1982-2018: Data From Mother Jones' Investigation," updated September 20, 2018,

 http://www.motherjones.com/politics/2012/12/mass-shootings-mother-jones-full-data, accessed September 25, 2018; "A Guide to Mass Shootings in America," updated September 20, 2018, http://www.motherjones.com/politics/2012/07/mass-shootings-map, accessed October 22, 2018; "What Exactly is a Mass Shooting,"

 Mother Jones, August 14, 2012, http://www.motherjones.com/mojo/2012/08/what-is-a-mass-shooting. Additional details for the mass shootings obtained through Factiva and Google searches;
- d) Citizens Crime Commission of New York City: "Mayhem Multiplied: Mass Shooters and Assault Weapons," 2016, http://www.nycrimecommission.org/pdfs/CCC-MayhemMultiplied-June2016.pdf; "Mass Shooting Incidents in America (1984-2012)," http://www.nycrimecommission.org/mass-shooting-incidents-america.php,

- accessed June 1, 2017. Additional details for the mass shootings obtained through Factiva and Google searches; and
- e) Kleck, Gary, "Large-Capacity Magazines and the Casualty Counts in Mass Shootings: The Plausibility of Linkages," 17 *Justice Research and Policy* 28 (2016).

IV. BACKGROUND

7. California law "generally prohibits" the manufacture, distribution and possession of certain firearms, defined as assault weapons ("Assault Weapons").² According to California law, firearms qualify as Assault Weapons based on either their "make and model" or on certain "features." Examples of Assault Weapons include the "UZI," "AK series" and "Colt AR-15 series" rifles, and the "Bushmaster XM15." A semiautomatic, centerfire rifle (without a fixed magazine) can also be considered an Assault Weapon if it includes certain features, including a "pistol grip," a "thumbhole stock," a "flash suppressor," or an "adjustable" (telescoping or folding) stock.⁵ It is my understanding that Plaintiffs are challenging certain provisions of California law related to rifles that would qualify as Assault Weapons under California Penal Code sections 30510(a), 30515(a)(1)(A-C) and (E-F), and 30515(a)(3) and section 5499 of title 11 of the California Code of Regulations ("Assault Rifles").⁶ Therefore, for the purpose of this report, the term Assault Rifles does not include pistols, shotguns, rifles with fixed magazines, or rifles that are equipped with a grenade launcher.

Complaint, ¶19-21. See, also, California Department of Justice: "What is considered an assault weapon under California law?" and "What are AK and AR-15 series weapons?" https://oag.ca.gov/firearms/regagunfaqs, accessed October 25, 2018.

³ Complaint, ¶2.

California Penal Code section 30510 and California Code of Regulations, title 11, section 5499. See, also, Complaint, ¶¶23,24,26.

⁵ California Penal Code section 30515. See, also, Complaint, ¶7.

⁶ Complaint, ¶4.

V. FINDINGS

A. Methodology

- 8. We analyzed the use of Assault Weapons and large-capacity magazines in public mass shootings using two sources: Mother Jones⁷ and the Citizens Crime Commission of New York City.^{8,9} The analysis focused on public mass shootings because it is my understanding that the state of California is concerned about public mass shootings and enacted the challenged laws, in part, to address the problem of public mass shootings.
- 9. The definition of a mass shooting and the period covered differed somewhat for each of the sources. The Mother Jones data that we analyzed covers 104 mass shootings from 1982 to September 2018. Mother Jones includes mass shootings in which four or more people were killed in one incident in a public place and excludes crimes involving armed robbery or gang violence. Starting in January 2013, Mother Jones changed its definition of a mass shooting to include instances when three or more people were killed, consistent with a change in the federal definition of a mass shooting. The Citizens Crime Commission data that we

The Mother Jones data contains 93% of the mass shootings in the Citizens Crime Commission data for the years covered by both data sources, 1984 to 2016.

[&]quot;US Mass Shootings, 1982-2018: Data From Mother Jones' Investigation," *Mother Jones*, updated September 20, 2018, http://www.motherjones.com/politics/2012/12/mass-shootings-mother-jones-full-data, accessed September 25, 2018.

[&]quot;Mayhem Multiplied: Mass Shooters and Assault Weapons," Citizens Crime Commission of New York City, 2016. Additional details on the mass shootings were obtained from an earlier source by the Citizens Crime Commission. "Mass Shooting Incidents in America (1984-2012)," Citizens Crime Commission of New York City, http://www.nycrimecommission.org/mass-shooting-incidents-america.php, accessed June 1, 2017.

I found Mother Jones and Citizens Crime Commission to maintain the most comprehensive lists of relevant mass shootings when I began research in 2013 on mass shootings in response to a challenge to New York state law. I am not aware of any other source that is more applicable (including focusing on the type of mass shootings that I understand are of concern to New York and other states/municipalities). There is substantial overlap between the mass shootings in the Mother Jones and Citizens Crime Commission datasets. In particular, the Mother Jones data contains 93% of the mass shootings in the Citizens Crime Commission data for the years covered by both data sources, 1984 to 2016. Note that I have analyzed the mass shootings identified by Dr. Gary Kleck and found similar conclusions for mass shootings that involved large-capacity magazines.

[&]quot;A Guide to Mass Shootings in America," *Mother Jones*, updated September 20, 2018, http://www.motherjones.com/politics/2012/07/mass-shootings-map, accessed October 22, 2018. See also, "What Exactly is a Mass Shooting," *Mother Jones*, August 14, 2012. http://www.motherjones.com/mojo/2012/08/what-is-a-mass-shooting.

[&]quot;A Guide to Mass Shootings in America," *Mother Jones*, updated September 20, 2018, http://www.motherjones.com/politics/2012/07/mass-shootings-map, accessed October 22, 2018. Note this

analyzed covers 73 mass shootings from 1984 to June 2016. Citizens Crime Commission includes mass shootings in which four or more people were killed in a public place and was unrelated to another crime (such as robbery or domestic violence). We combined the data from both sources and searched news stories on each mass shooting to obtain additional details on the types of weapons used as well as data on shots fired where available. We compared the details on the weapons used in each shooting to the list of prohibited firearms and features specified in California law to identify, based on this publicly available information, which mass shootings involved the use of Assault Weapons or more specifically Assault Rifles. In addition, we identified, based on this publicly available information, which mass shootings involved the use of large-capacity magazines. See attached Appendix B for a summary of the combined data, and Appendix C for a summary of the weapons used in each public mass shooting based on Mother Jones, Citizens Crime Commission, and news reports.

B. Use of Assault Weapons in public mass shootings

- 10. Based on the data, we found that Assault Weapons are often used in public mass shootings. Whether an Assault Weapon was used in a mass shooting can be determined in 104 out of the 109 incidents (95%) considered in this analysis. Out of these 104 mass shootings, 27 (or 26%) involved Assault Weapons. Even assuming the mass shootings where it is not known whether an Assault Weapon was used *all* did not involve an Assault Weapon, 27 out of 109 mass shootings, or 25%, involved Assault Weapons.
- 11. In addition, in 25 of the 27 mass shootings that involved an Assault Weapon (93%), the Assault Weapon used was an Assault Rifle (rather than a pistol or shotgun). In all, an Assault Rifle was used in 25 (or 23%) of the 109 public mass shootings analyzed.
- 12. Based on our analysis, casualties were higher in the mass shootings that involved Assault Weapons than in other mass shootings. In particular, we found an average number of fatalities or injuries of 46 per mass shooting with an Assault Weapon versus 12 for those

analysis of the Mother Jones data may not match other analyses because Mother Jones periodically updates its historical data.

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[&]quot;Mayhem Multiplied: Mass Shooters and Assault Weapons," *Citizens Crime Commission of New York City*, 2016. Additional details, such as the number of shots fired, were obtained from an earlier source by the Citizens Crime Commission. "Mass Shooting Incidents in America (1984-2012)," *Citizens Crime Commission of New York City*, http://www.nycrimecommission.org/mass-shooting-incidents-america.php, accessed June 1, 2017.

without. Focusing on just fatalities, we found an average number of fatalities of 12 per mass shooting with an Assault Weapon versus 7 for those without. (See table below.)

13. We also found that casualties were higher in public mass shootings that involved Assault *Rifles*. In particular, we found an average number of fatalities or injuries of 48 per mass shooting that involved Assault Rifles versus 12 for those that did not involve any kind of Assault Weapon. Focusing on just fatalities, we found an average number of fatalities of 13 per mass shooting with an Assault Rifle versus 7 for those that did not involve any kind of Assault Weapon. (See table below.)

C. Use of large-capacity magazines in public mass shootings

- 14. Based on the data, we found that large-capacity magazines (those with a capacity to hold more than 10 rounds of ammunition) are often used in public mass shootings. Magazine capacity is known in 90 out of the 109 mass shootings (83%) considered in this analysis. We found that large-capacity magazines were used in the majority of mass shootings since 1982 regardless of how mass shootings with unknown magazine capacity are treated. In particular, of the 90 mass shootings with known magazine capacity, 59 (or 66%) involved large-capacity magazines. Even assuming the mass shootings with unknown magazine capacity *all* did not involve large-capacity magazines, the majority of mass shootings involved large capacity magazines (59 out of 109 mass shootings or 54%). (See table below.)
- 15. Based on our analysis of the public mass shootings data, casualties were higher in the mass shootings that involved weapons with large-capacity magazines than in other mass shootings. In particular, we found an average number of fatalities or injuries of 30 per mass shooting with a large-capacity magazine versus 10 for those without. ¹³ Focusing on just fatalities, we found an average number of fatalities of 10 per mass shooting with a large-capacity magazine versus 6 for those without. (See table below.)
- 16. In addition, we found that casualties were higher in the mass shootings that involved both Assault Weapons *and* large-capacity magazines. In particular, we found an

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An analysis of the mass shootings detailed in an article by Gary Kleck yielded similar results (21 average fatalities or injuries in mass shootings involving large-capacity magazines versus 8 for those without). The article covered 88 mass shooting incidents between 1994 and 2013. Kleck, Gary, "Large-Capacity Magazines and the Casualty Counts in Mass Shootings: The Plausibility of Linkages," 17 *Justice Research and Policy* 28 (2016).

average number of fatalities or injuries of 47 per mass shooting with both an Assault Weapon and a large-capacity magazine versus and 9 for those without either. Focusing on just fatalities, we found an average number of fatalities of 12 per mass shooting with both an Assault Weapon and a large-capacity magazine versus 6 for those without either. (See table below.)

17. For mass shootings that involved both Assault *Rifles* and large-capacity magazines, we found an average number of fatalities or injuries of 50 per mass shooting with both an Assault Rifle and a large-capacity magazine versus 9 for mass shootings without either. Focusing on just fatalities, we found an average number of fatalities of 13 per mass shooting with both versus 6 for those without either. (See table below.)

	# of	Average # of		
Weapon Used	Incidents	Fatalities	Injuries	Total
Assault Weapon	27	12	33	46
Assault Rifle	25	13	36	48
No Assault Weapon	77	7	5	12
Unknown	5	7	2	9
Large-Cap. Mag.	59	10	19	30
No Large-Cap. Mag.	31	6	3	10
Unknown	19	4	3	7
Assault Weapon & Large-Cap. Mag.	26	12	34	47
Assault Rifle & Large-Cap. Mag.	24	13	37	50
Large-Cap. Mag. only	30	9	8	17
No Assault Weapon or Large-Cap. Mag.	30	6	3	9
Unknown	23	5	3	8

D. Number of rounds fired in public mass shootings with Assault Weapons or large-capacity magazines

18. The data on public mass shootings indicates that it is common for offenders to fire more than ten rounds when using an Assault Weapon. Of the 27 mass shootings that involved an

Assault Weapon, there are 18 in which the number of shots fired is known. Shooters fired more than ten rounds in *all* 18 incidents, and the average number of shots fired was 170.

19. In addition, the data indicates that it is common for offenders to fire more than ten rounds when using a gun with a large-capacity magazine in mass shootings. Of the 59 mass shootings that involved a large-capacity magazine, there are 39 in which the number of shots fired is known. Shooters fired more than ten rounds in 37 of the 39 incidents, and the average number of shots fired was 107.

E. Percent of mass shooters' guns legally obtained

20. The data on public mass shootings indicates that the majority of guns used in these mass shootings were obtained legally.¹⁴ According to the data, shooters in at least 68% of mass shootings obtained their guns legally (at least 74 of the 109 mass shootings) and at least 73% of the guns used in these 109 mass shootings were obtained legally (at least 177 of the 242 guns).¹⁵

Lucy P. Allen

October 25, 2018

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The determination of whether guns were obtained legally is based on Mother Jones reporting.

Mother Jones did not indicate whether the guns were obtained legally for 13% of mass shootings (14 out of the 104 mass shootings covered by Mother Jones).

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Lucy P. Allen Managing Director

www.nera.com

NERA Economic Consulting 1166 Avenue of the Americas New York, New York 10036 Tel: +1 212 345 5913 Fax: +1 212 345 4650 lucy.allen@nera.com

Appendix A

MANAGING DIRECTOR

Education

YALE UNIVERSITY

M.Phil., Economics, 1990 M.A., Economics, 1989 M.B.A., 1986

STANFORD UNIVERSITY

A.B., Human Biology, 1981

Professional Experience

1994-Present National Economic Research Associates, Inc.

Managing Director. Responsible for economic analysis in the areas of

securities, finance and environmental and tort economics.

Senior Vice President (2003-2016).

<u>Vice President (1999-2003)</u>. <u>Senior Consultant (1994-1999)</u>.

1992-1993 Council of Economic Advisers, Executive Office of the President

<u>Staff Economist</u>. Provided economic analysis on regulatory and health care issues to Council Members and interagency groups. Shared responsibility for regulation and health care chapters of the *Economic Report of the President*, 1993. Working Group member of the President's

National Health Care Reform Task Force.

1986-1988 Ayers, Whitmore & Company (General Management Consultants)

1983-1984 <u>Senior Associate</u>. Formulated marketing, organization, and overall

business strategies including:

Plan to improve profitability of chemical process equipment manufacturer. Merger analysis and integration plan of two equipment manufacturers.

Evaluation of Korean competition to a U.S. manufacturer.

Diagnostic survey for auto parts manufacturer on growth obstacles.

Marketing plan to increase international market share for major accounting

firm.

Summer 1985 WNET/Channel Thirteen, Strategic Planning Department

<u>Associate</u>. Assisted in development of company's first long-term strategic plan. Analyzed relationship between programming and viewer support.

1981-1983 Arthur Andersen & Company

<u>Consultant</u>. Designed, programmed and installed management information systems. Participated in redesign/conversion of New York State's accounting system. Developed municipal bond fund management system, successfully marketed to brokers. Participated in President's Private Sector Survey on Cost Control (Grace Commission). Designed customized tracking and accounting system for shipping company.

Teaching

1989- 1992 <u>Teaching Fellow, Yale University</u>

Honors Econometrics

Intermediate Microeconomics

Competitive Strategies

Probability and Game Theory

Marketing Strategy Economic Analysis

Publications, Speeches and Conference Papers

"Snapshot of Recent Trends in Asbestos Litigation: 2018 Update," (co-author), NERA Report, 2018.

"Trends and the Economic Effect of Asbestos Bans and Decline in Asbestos Consumption and Production Worldwide," (co-author), *International Journal of Environmental Research and Public Health*, 15(3), 531, 2018.

"Snapshot of Recent Trends in Asbestos Litigation: 2017 Update," (co-author), NERA Report, 2017.

"Asbestos: Economic Assessment of Bans and Declining Production and Consumption," World Health Organization, 2017.

"Snapshot of Recent Trends in Asbestos Litigation: 2016 Update," (co-author), NERA Report, 2016.

"Economic Dimension and Societal Costs and Benefits of Banning Asbestos," presented at the World Health Organization, Regional Office for Europe conference, Assessing the Economic Costs of the Health Impacts of Environmental and Occupational Factors: The Economic Dimension of Asbestos, Bonn, Germany, 2016.

"Snapshot of Recent Trends in Asbestos Litigation: 2015 Update," (co-author), NERA Report, 2015.

Participant in panel on "Expert Reports and Depositions" at PLI Expert Witness 2014, hosted by the Practising Law Institute, New York, New York, 2014.

"Snapshot of Recent Trends in Asbestos Litigation: 2014 Update," (co-author), NERA Report, 2014.

"High Frequency Trading -- A Primer in 1,800,000 Milliseconds" before the Litigation Group at Morrison Foerster, New York, New York, 2014.

"Snapshot of Recent Trends in Asbestos Litigation: 2013 Update," (co-author), NERA Report, 2013.

"Asbestos Payments per Resolved Claim Increased 75% in the Past Year – Is This Increase as Dramatic as it Sounds? Snapshot of Recent Trends in Asbestos Litigation: 2012 Update," (co-author), NERA Report, 2012.

"Snapshot of Recent Trends in Asbestos Litigation: 2011 Update," (co-author), NERA White Paper, 2011.

Participant in panel at The Implications of Matrixx, hosted by NERA Economic Consulting, New York, New York, 2011.

"2011 & Beyond–Predicting Mass Tort Litigation: with a Focus on Pharmaceutical Torts" presented at Emerging Insurance Coverage and Allocation Issues, hosted by Perrin Conferences, New York, New York, 2011.

Presented recent trends in settlements, predicting settlement amounts, and the use of economic analysis at mediation in the "Settlement Trends & Tactics" panel at Securities Litigation & Enforcement: Current Developments & Strategies, hosted by the New York City Bar, New York, New York, 2010.

"Snapshot of Recent Trends in Asbestos Litigation: 2010 Update," (co-author), NERA White Paper, 2010.

"Settlement Trends and Tactics" presented at Securities Litigation During the Financial Crisis: Current Development & Strategies, hosted by the New York City Bar, New York, New York, 2009.

"GM and Chrysler Bankruptcies: Potential Impact on Other Asbestos Defendants" presented at Asbestos Litigation Conference: A Comprehensive National Overview and Outlook, hosted by Perrin Conferences, San Francisco, California, 2009.

"Snapshot of Recent Trends in Asbestos Litigation," (co-author), NERA White Paper, 2009.

"Emerging Economies and Product Recall -- Are the Claims Coming?" presented at The International Reinsurance Summit 2008, Hamilton, Bermuda, 2008.

- "China Product Recalls: What's at Stake and What's Next," (co-author), NERA Working Paper, 2008.
- "Recent Trends in Securities Litigation" presented at Strategies, Calculations & Insurance in Complex Business Litigation, hosted by the Directors Roundtable, New York, New York, 2008.
- "The Current Landscape" presented at Mealey's Product Recall Liability Conference: Made in China and Beyond, Washington, DC, 2007.
- "China Product Recalls: What's at Stake and What's Next" presented at China Product Recalls, sponsored by National Economic Research Associates, New York, New York, 2007.
- "Damages and Loss Causation in Shareholder Class Actions after Dura" presented at Securities Litigation: Emerging Trends in Enforcement and Winning Litigation Strategies hosted by the International Quality & Productivity Center, New York, New York, 2006.
- "Forecasting Product Liability by Understanding the Driving Forces," (co-author), The International Comparative Legal Guide to Product Liability, 2006.
- "Recent Trends in Securities Class Action Litigation," presented at The Class Action Litigation Summit Program Class Action in the Securities Industry, Washington, D.C., 2003.
- "Product Liability Claims Estimation Four Steps, Four Myths" presented at Standard & Poor's Seminar, New York, New York, 2001.
- "How Bad Can It Be? The Economics of Damages and Settlements in Shareholder Class Actions," Balancing Disclosure and Litigation Risks for Public Companies (Or Soon-To-Be Public Companies) Seminar, sponsored by Alston & Bird LLP and RR Donnelley Financial, Nashville, Tennessee, 2000.
- "Securities Litigation Reform: Problems and Progress," Viewpoint, November 1999, Issue No. 2 (co-authored).
- "Trends in Securities Litigation and the Impact of the PSLRA," Class Actions & Derivative Suits, American Bar Association Litigation Section, Vol. 9, No. 3, Summer 1999 (co-authored).
- "Random Taxes, Random Claims," Regulation, Winter 1997, pp. 6-7 (co-authored).
- "Adverse Selection in the Market for Used Construction Equipment," presented at the NBER Conference on Research in Income and Wealth, Federal Reserve Board, June 1992.

Expert Reports, Depositions & Testimony (4 years)

Rebuttal Report and Expert Reports before the Clark County District Court of Nevada in *Round Square Company Limited v. Las Vegas Sands, Inc.*, 2018.

Supplemental Report and Expert Report before the United States District Court Middle District of Tennessee in *Zwick Partners LP and Aparna Rao v. Quorum Health Corporation, et al.*, 2018.

Declaration before the Superior Court of the State of Vermont in Vermont Federation of Sportsmen's Club et al. v. Matthew Birmingham et al., 2018.

Deposition Testimony and Expert Report before the United States District Court Middle District of Tennessee in *Nikki Bollinger Grae v. Corrections Corporation of America et al.*, 2018.

Expert Report before the United States District Court Northern District of Illinois Eastern Division in *In re Allstate Corporation Securities Litigation*, 2018.

Expert Report before the Eighth Judicial District Court for the State of Nevada in *Dan Schmidt v. Liberator Medical Holdings, Inc., et al.*, 2018.

Testimony and Expert Report before the American Arbitration Association in *Arctic Glacier U.S.A., Inc. and Arctic Glacier U.S.A., Inc. Savings and Retirement Plan v. Principal Life Insurance Company*, 2018.

Deposition Testimony and Expert Report before the United States District Court Southern District of New York in *Marvin Pearlstein v. Blackberry Limited et al.*, 2018.

Deposition Testimony and Expert Report before the United States District Court Eastern District of Texas in *Alan Hall and James DePalma v. Rent-A-Center, Inc., Robert D. Davis, and Guy J. Constant,* 2018.

Deposition Testimony, Surrebuttal Report, Rebuttal Report and Expert Report before the United States District Court Southern District of Iowa in *Mahaska Bottling Company, Inc., et al. v. PepsiCo, Inc. and Bottling Group, LLC*, 2018.

Testimony, Deposition Testimony and Declaration before the United States District Court District of New Jersey in Association of New Jersey Rifle & Pistol Clubs, Inc. et al. v. Gurbir Grewal et al., 2018.

Deposition Testimony, Supplemental Report and Expert Report before the Supreme Court of the State of New York in *Bernstein Liebhard*, *LLP v. Sentinel Insurance Company*, *Ltd.*, 2018.

Expert Report before the District Court for Douglas County, Nebraska in *Union Pacific Railroad Company v. L.B. Foster Company and CXT Incorporated*, 2018.

Deposition Testimony and Declarations before the United States District Court Southern District of New York in *Andrew Meyer v. Concordia International Corp.*, et al., 2018.

Deposition Testimony before the United States District Court Southern District of California in *Virginia Duncan, et al. v. Xavier Becerra, et al.*, 2018.

Expert Report and Declaration before the United States District Court Southern District of California in *Virginia Duncan*, et al. v. Xavier Becerra, et al., 2017.

Deposition Testimony and Expert Report before the United States District Court for the Western District of Texas, Austin Division in *City of Pontiac General Employees' Retirement System v. Dell, Inc., et al.,* 2017.

Deposition Testimony and Expert Report before the United States District Court for the Southern District of Texas, Houston Division in *In re Willbros Group, Inc. Securities Litigation*, 2017.

Declaration before the United States District Court Eastern District of California in William Wiese, et al. v. Xavier Becerra, et al., 2017.

Deposition Testimony and Expert Report before the United States District Court for the Southern District of Texas, Houston Division in *In re Cobalt International Energy Inc. Securities Litigation.*, 2017.

Testimony, Deposition Testimony and Expert Report before the United States District Court for the Northern District of Texas, Dallas Division in *DEKA Investment GmbH*, et al. v. Santander Consumer USA Holdings, Inc., et al., 2017.

Deposition Testimony before the Superior Court of the State of North Carolina for Mecklenburg County in *Next Advisor, Inc. v. LendingTree, Inc.*, 2017

Deposition Testimony and Expert Report before the Supreme Court of the State of New York, County of New York in *Iroquois Master Fund Ltd.*, et al. v. Hyperdynamics Corporation, 2016.

Deposition Testimony and Expert Report before the United States District Court for the Northern District of Texas, Dallas Division in *The Archdiocese of Milwaukee Supporting Fund, Inc., et al. v. Halliburton Company, et al.*, 2016.

Expert Report before the United States District Court for the Northern District of Georgia, Atlanta Division, in *In re Suntrust Banks, Inc. ERISA Litigation*, 2016.

Deposition Testimony and Expert Report before the Superior Court of New Jersey, Union County, in *Syngenta Crop Protection, Inc. v. Insurance Company of North America et al.*, 2015.

Declaration before the United States District Court Northern District of Georgia, in *John Noble, et al. v. Premiere Global Services, Inc., et al.*, 2015.

Deposition Testimony and Expert Report before the United States District Court Central District of California, in *Amanda Sateriale, et al. v. RJ Reynolds Tobacco Co. et al.*, 2015.

Rebuttal Report and Expert Report in the United States of America before the Securities and Exchange Commission in *Houston American Energy Corp.*, et al., 2014.

Testimony, Deposition Testimony and Expert Report before the United States District Court for the Northern District of Texas, Dallas Division in *The Archdiocese of Milwaukee Supporting Fund, Inc., et al. v. Halliburton Company, et al.*, 2014.

Deposition Testimony and Expert Report before the United States District Court for the Eastern District of Pennsylvania in *Power Restoration International, Inc. v. PepsiCo, Inc., Bottling Group, LLC, and Frito-Lay Trading Company (Europe), Gmbh*, 2014.

Deposition Testimony and Expert Reports before the United States District Court Southern District of New York in *In re Lower Manhattan Disaster Site Litigation*, 2014.

Deposition Testimony and Expert Report before the United States District Court Southern District of Florida in *Atul Kumar Sood, et al. v. Catalyst Pharmaceutical Partners Inc.*, et al., 2014.

Declaration before the Superior Court of Gwinnett County State of Georgia in *City of Riviera Beach General Employees Retirement System, et al. v. Aaron's Inc., et al., Norfolk County Retirement System, et al. v. Aaron's Inc., et al., 2014.*

Deposition Testimony, Surrebuttal Report and Expert Report before the United States District Court Middle District of Tennessee Nashville Division in *Garden City Employees' Retirement System and Central States, Southeast and Southwest Areas Pension Fund, et al. v. Psychiatric Solutions, Inc., et al.*, 2014.

Declaration before the United States District Court Northern District of California San Jose Division in *Fyock, et al. v. The City of Sunnyvale, et al.*, 2014.

Deposition Testimony and Expert Report before the United States District Court for the District of Maryland (Northern Division) in *Kolbe*, et al. v. O'Malley, et al., 2014.

Declaration before the United States District Court Northern District of California in San Francisco Veteran Police Officers Association, et al. v. The City and County of San Francisco, et al., 2014.

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1982 - September 2018

				Large					Total		Gun(s)	Offenders'
				Cap.		Assault			Fatalities &	Shots	Obtained	Number of
Case	Location	Date	Source	Mag.?	b Weapon?	b Rifle?	c Fatalities	c Injuries	c Injuries	Fired	$^{ m d}_{ m Legally}$	Guns
(1)	(2)	(3)	(4)	(5)	(9)	(7)	(8)	(6)	(10)	(11)	(12)	(13)
1. Rite Aid Warehouse	Perryman, MD	9/20/2018	MJ	,	No	No	3	3	9		Yes	1
2. T&T Trucking	Bakersfield, CA	9/12/2018	MJ	No	No	No	S	0	5			_
3. Fifth Third Center	Cincinnati, OH	9/6/2018	MJ		No	No	3	2	S			1
4. Capital Gazette	Annapolis, MD	6/28/2018	MJ		No	No	S	2	7		Yes	_
5. Santa Fe High School	Santa Fe, TX	5/18/2018	MJ	No	No	No	10	13	23	•	1	2
6. Waffle House	Nashville, TN	4/22/2018	MJ	Yes	Yes	Yes	4	4	8		Yes	1
7. Yountville Veterans Home	Yountville, CA	3/9/2018	MJ				3	0	3		Yes	2
8. Stoneman Douglas HS	Parkland, FL	2/14/2018	MJ	Yes	No	No	17	14	31		Yes	1
9. Pennsylvania Carwash	Melcroft, PA	1/28/2018	MJ	Yes	1	1	4	1	S	•		3 e
10. Rancho Tehama	Rancho Tehama, CA	11/14/2017	MJ	Yes	Yes	Yes	5	10	15	30 f	No	2
11. Texas First Baptist Church	Sutherland Springs, TX	11/5/2017	MJ	Yes	Yes	Yes	26	20	46	450 g	Yes	1
12. Suburban Denver Walmart	Thornton, CO	11/1/2017	MJ		No	No	3	0	3	30 h		1
13. Edgewood Business Park	Edgewood, MD	10/18/2017	MJ	,	No	No	3	3	9		No	1
14. Las Vegas Strip	Las Vegas, NV	10/1/2017	MJ	Yes	Yes	Yes	58	546	604	1100^{-1}	Yes	23
15. San Francisco UPS	San Francisco, CA	6/14/2017	MJ	Yes	Yes	No	3	2	S		No	7
16. Pennsylvania Supermarket	Tunkhannock, PA	6/7/2017	MJ	No	No	No	3	0	3	59 j		2
17. Fiamma Workplace	Orlando, FL	6/5/2017	MJ		No	No	5	0	S			1
18. Ohio Nursing Home	Kirkersville, OH	5/12/2017	MJ		No	No	3	0	3	1		7
19. Fresno Downtown	Fresno, CA	4/18/2017	MJ	No	No	No	3	0	3	16 k		1
20. Fort Lauderdale Airport	Fort Lauderdale, FL	1/6/2017	MJ		No	No	5	9	111	151	Yes	1
21. Cascade Mall	Burlington, WA	9/23/2016	MJ	ı	No	No	5	0	S			1
22. Baton Rouge Police	Baton Rouge, LA	7/17/2016	MJ	Yes	Yes	Yes	3	3	9	43 m		3
23. Dallas Police	Dallas, TX	7/7/2016	MJ	Yes	Yes	Yes	5	11	16		Yes	3
24. Orlando Nightclub	Orlando, FL	6/12/2016	MJ/CC	Yes	Yes	Yes	49/50	53	102/103	110 n	Yes	2
25. Excel Industries	Hesston, KS	2/25/2016	MJ	Yes	Yes	Yes	3	14	17		Yes	2
26. Kalamazoo	Kalamazoo County, MI	2/20/2016	MJ	1	No	No	9	2	8		Yes	1
27. San Bernardino	San Bernardino, CA	12/2/2015	MJ/CC	Yes	Yes	Yes	14/16	21	35/37	150 °	Yes	4
28. Planned Parenthood Clinic	Colorado Springs, CO	11/27/2015	MJ	ı	Yes	Yes	3	6	12			1
29. Colorado Springs	Colorado Springs, CO	10/31/2015	MJ	Yes	Yes	Yes	3	0	3		Yes	3

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				Large					Total		Gun(s)	Offenders'
				Cap.					Fatalities &	Shots	Obtained	Number of
Case	Location	Date	Source	Mag.	b Weapon?	Biffe?	c Fatalities	c Injuries	C Injuries	Fired	$^{ m d}_{ m Legally}$	Guns
(1)	(2)	(3)	(4)	(5)	(9)	(7)	(8)	(6)	(10)	(11)	(12)	(13)
30. Umpqua Community College	Roseburg, OR	10/1/2015	MJ/CC	Yes	No	No	9/10	6	18/19	1	Yes	9
31. Chattanooga Military Center	Chattanooga, TN	7/16/2015	MJ/CC	Yes	Yes	Yes	9/9	2/3	6/L		Yes	3
32. Charleston Church	Charleston, SC	6/17/2015	MJ/CC	Yes	No	No	6	П	10		Yes	1
33. Trestle Trail Bridge	Menasha, WI	6/11/2015	MJ		No	No	3	-	4		Yes	2
34. Marysville High School	Marysville, WA	10/24/2014	MJ/CC	Yes	No	No	5	П	9		Stolen	1
35. Isla Vista	Santa Barbara, CA	5/23/2014	MJ	Yes	No	No	9	13	19	50 P	Yes	3
36. Fort Hood	Fort Hood, TX	4/3/2014	MJ	1	No	No	3	12	15	1	Yes	-
37. Alturas Tribal	Alturas, CA	2/20/2014	MJ	,	No	No	4	2	9			2
38. Washington Navy Yard	Washington, D.C.	9/16/2013	MJ/CC	No	No	No	12/13	2/8	20	•	Yes	2
39. Hialeah	Hialeah, FL	7/26/2013	MJ/CC	Yes	No	No	7	0	7	10 4	Yes	1
40. Santa Monica	Santa Monica, CA	6/7/2013	MJ/CC	Yes	Yes	Yes	9	3/4	9/10	70 r	Yes	2
41. Federal Way	Federal Way, WA	4/21/2013	MJ		No	No	5	0	5		Yes	2
42. Upstate New York	Herkimer County, NY	3/13/2013	MJ		No	No	5	2	7	1	Yes	
43. Newtown School	Newtown, CT	12/14/2012	MJ/CC	Yes	Yes	Yes	28	2	30	154	Stolen	4/3
44. Accent Signage Systems	Minneapolis, MN	9/27/2012	MJ/CC	Yes	No	No	7	1/2	6/8	46	Yes	1
45. Sikh Temple	Oak Creek, WI	8/5/2012	MJ/CC	Yes	No	No	7	3	10		Yes	1
46. Aurora Movie Theater	Aurora, CO	7/20/2012	MJ/CC	Yes	Yes	Yes	12	70	82	80	Yes	4
47. Seattle Café	Seattle, WA	5/30/2012	MJ/CC	No	No	No	9	1	7		Yes	2
48. Oikos University	Oakland, CA	4/2/2012	MJ/CC	No	No	No	7	3	10	•	Yes	1
49. Su Jung Health Sauna	Norcross, GA	2/22/2012	MJ	•	No	No	5	0	5		Yes	1
50. Seal Beach	Seal Beach, CA	10/14/2011	MJ/CC	No	No	No	∞	-	6	1	Yes	3
51. IHOP	Carson City, NV	9/6/2011	MJ/CC	Yes	Yes	Yes	5	7	12	•	Yes	3
52. Grand Rapids	Grand Rapids, MI	7/7/2011	CC	Yes	No	No	8	2	10	10		1
53. Tucson	Tucson, AZ	1/8/2011	MJ/CC	Yes	No	No	9	13	19	33	Yes	1
54. Hartford Beer Distributor	Manchester, CT	8/3/2010	MJ/CC	Yes	No	No	6	2	111	11	Yes	2
55. Yoyito Café	Hialeah, FL	6/6/2010	CC	No	No	No	5	3	∞	s 6		-
56. Coffee Shop Police	Parkland, WA	11/29/2009	MJ/CC	No	No	No	4/5	1/0	5	,	Stolen	2
57. Fort Hood	Fort Hood, TX	11/5/2009	MJ/CC	Yes	No	No	13	30/32	43/45	214	Yes	1
58. Binghamton	Binghamton, NY	4/3/2009	MJ/CC	Yes	No	No	14	4	18	66	Yes	2

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					Large					Total		Gun(s)	Offenders'
					Cap.	Assault	Assault			Fatalities &	Shots	Obtained	Number of
'	Case	Location	Date	Source	Mag.?	b Weapon?	Biffle?	c Fatalities	c Injuries	c Injuries	Fired	d Legally?	Guns
-	(1)	(2)	(3)	(4)	(5)	(9)	(7)	(8)	(6)	(10)	(11)	(12)	(13)
59.	59. Carthage Nursing Home	Carthage, NC	3/29/2009	MJ/CC	No	No	No	∞	3/2	11/10	1	Yes	2
.09	Atlantis Plastics	Henderson, KY	6/25/2008	MJ/CC	No	No	No	9	_	7		Yes	1
61.	61. Northern Illinois University	DeKalb, IL	2/14/2008	MJ/CC	Yes	No	No	9/9	21	26/27	54	Yes	4
62.	Kirkwood City Council	Kirkwood, MO	2/7/2008	MJ/CC	No	No	No	9	2	∞		Stolen	2
63.	Westroads Mall	Omaha, NE	12/5/2007	MJ/CC	Yes	Yes	Yes	6	4/5	13/14	14	Stolen	1
4.	Crandon	Crandon, WI	10/7/2007	MJ/CC	Yes			<i>L</i> /9	-	8/L	30 t	Yes	1
65.	Virginia Tech	Blacksburg, VA	4/16/2007	MJ/CC	Yes	No	No	32/33	23/17	55/50	176	Yes	2
.99	Trolley Square	Salt Lake City, UT	2/12/2007	MJ/CC	No	No	No	9	4	10		No	2
67.	67. Amish School	Lancaster County, PA	10/2/2006	MJ/CC	No	No	No	9	5	111	•	Yes	8
.89	Capitol Hill	Seattle, WA	3/25/2006	MJ/CC	Yes	Yes	Yes	7	2	6	•	Yes	4
.69	Goleta Postal	Goleta, CA	1/30/2006	MJ/CC	Yes	No	No	∞	0	∞		Yes	1
70.	Red Lake	Red Lake, MN	3/21/2005	MJ/CC	No	No	No	10	9/9	15/16	•	Stolen	3
71.	71. Living Church of God	Brookfield, WI	3/12/2005	MJ/CC	Yes	No	No	2//8	4	11/12	•	Yes	1
72.	Damageplan Show	Columbus, OH	12/8/2004	MJ/CC	No	No	No	5	7/3	12/8	15 u	Yes	1
73.	73. Hunting Camp	Meteor, WI	11/21/2004	CC	Yes	Yes	Yes	9	3	6	20		1
74.	Windy City Warehouse	Chicago, IL	8/27/2003	CC	No	No	No	7	0	7	•	•	1
75.	75. Lockheed Martin	Meridian, MS	7/8/2003	MJ/CC	Yes	No	No	7	∞	15		Yes	S
76.	Navistar	Melrose Park, IL	2/5/2001	MJ/CC	Yes	No	No	5	4	6	•	Yes	4
77.	Wakefield	Wakefield, MA	12/26/2000	MJ/CC	Yes	•		7	0	7	37	Yes	3
78.	Hotel	Tampa, FL	12/30/1999	MJ/CC	No	No	No	5	3	∞	,	Yes	2
79.	Xerox	Honolulu, HI	11/2/1999	MJ/CC	Yes	No	No	7	0	7	28	Yes	1
80.	Wedgwood Baptist Church	Fort Worth, TX	9/15/1999	MJ/CC	Yes	No	No	∞	7	15	30	Yes	2
81.	Atlanta Day Trading	Atlanta, GA	7/29/1999	MJ	ı	No	No	6	13	22	•	Yes	4
82.	Columbine High School	Littleton, CO	4/20/1999	MJ/CC	Yes	Yes	Yes	13/15	24	37/39	188	No	4
83.	Thurston High School	Springfield, OR	5/21/1998	MJ/CC	Yes	No	No	4	25	29	50	No	3
84.	84. Westside Middle School	Jonesboro, AR	3/24/1998	MJ/CC	Yes	No	No	5	10	15	26	Stolen	9/10
85.	Connecticut Lottery	Newington, CT	3/6/1998	MJ/CC	Yes	No	No	5	1/0	9/9	5	Yes	1
.98	Caltrans Maintenance Yard	Orange, CA	12/18/1997	MJ/CC	Yes	Yes	Yes	S	2	7	14	Yes	1
87.	87. R.E. Phelon Company	Aiken, SC	9/15/1997	MJ/CC	No	No	No	4	3	7	1	No	-

Combined Public Mass Shootings Data

				Large					Total		Gun(s)	Offenders'
				Cap.	Assault	Assault			Fatalities &	Shots	Obtained	Number of
Case	Location	Date	Source	Mag.?	b Weapon?	Bifle?	c Fatalities	c Injuries	c Injuries	Fired	d Legally?	Guns
(1)	(2)	(3)	(4)	(3)	(9)	(7)	(8)	(6)	(10)	(11)	(12)	(13)
88. Fort Lauderdale	Fort Lauderdale, FL	2/9/1996	MJ/CC	No	No	No	9	1	7	14 V	Yes	2
89. Piper Technical Center	Los Angeles, CA	7/19/1995	SC	Yes	No	No	4	0	4			
90. Walter Rossler Company	Corpus Christi, TX	4/3/1995	MJ/CC	No	No	No	9	0	9		Yes	2
91. Air Force Base	Fairchild Base, WA	6/20/1994	MJ/CC	Yes	Yes	Yes	9/9	23	28/29	20 M	Yes	-
92. Chuck E. Cheese	Aurora, CO	12/14/1993	MJ/CC	No	No	No	4		5			-
93. Long Island Railroad	Garden City, NY	12/7/1993	MJ/CC	Yes	No	No	9	19	25	30	Yes	-
94. Luigi's Restaurant	Fayetteville, NC	8/6/1993	MJ/CC	No	No	No	4	∞	12		Yes	3
95. 101 California Street	San Francisco, CA	7/1/1993	MJ/CC	Yes	Yes	No	6	9	15	75	No	3
96. Watkins Glen	Watkins Glen, NY	10/15/1992	MJ/CC	No	No	No	5	0	5	•	Yes	-
97. Lindhurst High School	Olivehurst, CA	5/1/1992	MJ/CC	No	No	No	4	10	14	•	Yes	2
98. Royal Oak Postal	Royal Oak, MI	11/14/1991	MJ/CC	No	No	No	5	5/4	6/01	•	Yes	_
99. University of Iowa	Iowa City, IA	11/1/1991	MJ/CC	No	No	No	9	-	7		Yes	-
100. Luby's Cafeteria	Killeen, TX	10/16/1991	MJ/CC	Yes	No	No	24	20	44	100	Yes	2
101. GMAC	Jacksonville, FL	6/18/1990	MJ/CC	Yes	No	No	10	4	14	14	Yes	2
102. Standard Gravure Corporation	Louisville, KY	9/14/1989	MJ/CC	Yes	Yes	Yes	6	12	21	21	Yes	5
103. Stockton Schoolyard	Stockton, CA	1/17/1989	MJ/CC	Yes	Yes	Yes	9	29/30	35/36	106	Yes	2
104. ESL	Sunnyvale, CA	2/16/1988	MJ/CC	No	No	No	7	4	111	1	Yes	7
105. Shopping Centers	Palm Bay, FL	4/23/1987	MJ/CC	Yes	No	No	9	14/10	20/16	40 X	Yes	3
106. United States Postal Service	Edmond, OK	8/20/1986	MJ/CC	No		No	15	9	21		Yes	3
107. San Ysidro McDonald's	San Ysidro, CA	7/18/1984	MJ/CC	Yes	Yes	Yes	22	19	41	257	Yes	3
108. Dallas Nightclub	Dallas, TX	6/29/1984	MJ/CC	Yes	No	No	9	1	7	•	No	-
109. Welding Shop	Miami, FL	8/20/1982	MJ	No	No	No	&	3	11		Yes	1

170.1	45.5	106.5	22.6
45.5	11.9	29.7	9.5
33.4	5.1	19.4	3.2
12.1	8.9	10.3	6.4
Assault Weapon Average	Non-Assault Weapon Average	Large-Capacity Magazine Average	Non-Large Capacity Magazine Average

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ombined Public Mass Shootings Data 1982 – September 2018

Offenders'	Number of	Guns	(13)
Gun(s)	Obtained	Legally?	(12)
	Shots	Fired	(11)
Total	Fatalities &	C Injuries	(10)
		Injuries	(6)
		^c Fatalities	(8)
	Assault	Rifle?	(7)
		Weapon?	(9)
Large	Cap.	Mag.?	(5)
		Source	(4)
		Date	(3)
		Location	(2)
		Case	(1)

Notes and Sources:

Data from Mother Jones ("US Mass Shootings, 1982-2018: Data from Mother Jones' Investigation," accessed September 25, 2018) and the Citizens Crime Commission of New York City ("Mayhem Multiplied:

Mass Shooters and Assault Weapons," 2016, and "Citizens Crime Commission of New York City, Mass Shooting Incidents in America (1984-2012)," accessed June 1, 2017). MJ indicates Mother Jones data.

CC indicates Citizens Crime Commission of New York City data. If sources differ on data, "/" is added between values. In these instances, values from MJ are listed first. Except where noted, all data on shots

fired obtained from CC.

a Large capacity magazines are those with a capacity to hold more than 10 rounds of ammunition.

b See Appendix C for details.

c Offender(s) included in counts of fatalities and injuries.

 ${\rm d}$ The determination of whether guns were obtained legally is based on Mother Jones reporting.

e Number of guns from: "Suspect in quadruple killing at car wash dies," CNN, January 30, 2018.

f Shots fired from: "California gunman fired 30 rounds at elementary school, left when he couldn't get inside," ABC News, November 15, 2017.

g Shots fired from: "Be quiet! It's him!" Survivors say shooter walked pew by pew looking for people to shoot," CNN, November 9, 2017.

h Shots fired from: "Three dead after 'around 30' shots fired at Walmart supermarket in Thornton," Evening Standard, November 2, 2017.

i Shots fired from: "Sheriff Says More than 1,100 Rounds Fired in Las Vegas," Las Vegas Review Journal, November 22, 2017

^J Shots fired from: "Killer in Supermarket Shooting Posted Chilling Videos Online, Lauding Columbine Massacre," Washington Post, June 9, 2017.

Shots fired from: "Fort Lauderdale Shooting Suspect Appears in Court, Ordered Held Without Bond," Washington Post, January 9, 2017. k Shots fired from: "Hate Crime is Suspected After Gunman Kills 3 White Men in Downtown Fresno," Los Angeles Times, April 19, 2017.

m Shots fired from: "Baton Rouge Cop Killer Left Note, Fired At Least 43 Rounds," CNN, July 9, 2017.

n Shots fired from: "We Thought It Was Part of the Music': How the Pulse Nightclub Massacre Unfolded in Orlando," The Telegraph, June 13, 2016.

O Shots fired from: "San Bernardino Suspects Left Trail of Clues, but No Clear Motive," New York Times, December 3, 2015.

P Shots fired from: "Sheriff: Elliot Rodger Fired 50-plus Times in Isle Vista Rampage," Los Angeles Times, June 4, 2014.

q Shots fired from: "Shooter Set \$10,000 on Fire in Hialeah Shooting Rampage," NBC News , July 28, 2013.

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1982 – September 2018

Offenders'	Number of	Guns	(13)
Gun(s)	Obtained	Legally?	(12)
	Shots	Fired	(11)
Total		c Injuries	(10)
		c Injuries	(6)
		c Fatalities	(8)
	Assault	Rifle?	(7)
	Assault	Weapon?	(9)
Large	Cap.	Mag.	(5)
		Source	(4)
		Date Source	(3)
		Location	(2)
		Case	(1)

^T Shots fired from: "Police Call Santa Monica Gunman 'Ready for Battle," 'New York Times, June 8, 2013.

^S Shots fired from: "Hialeah Gunman's Rage Over Estranged Wife Leaved 5 Dead," Sun-Sentinel, June 7, 2010.

^t Shots fired from: "Small Town Grieves for 6, and the Killer," Los Angeles Times, October 9, 2007.

^U Shots fired from: "National Briefing | Midwest. Ohio: Shooter At Club May Have Reloaded," New York Times, January 15, 2005.

V Shots fired from: "5 Beach Workers in Florida are Slain by Ex-Colleague," New York Times, February 10, 1996.

W Shots fired from: "Man Bent On Revenge Kills 4, Hurts 23 -- Psychiatrist Is First Slain In Rampage At Fairchild Air Force Base," The Seattle Times, June 21, 1994. X Shots fired from: "6 Dead in Florida Sniper Siege; Police Seize Suspect in Massacre," Chicago Tribune, April 25, 1987.

Case 8:17-cv-00746-JLS-JDE Document 76-5 Filed 03/25/19 Page 24 of 40 Page ID Appendix 523 List of Firearms Used in Public Mass Shootings

			Weapon Description From		Assault	Assault
Case	Location	Date	CCC ^a	b Mother Jones	weapon?	Riffe?
(1)	(2)	(3)	(4)	(5)	(9)	(7)
1. Rite Aid Warehouse	Ретгутап, МD	9/20/2018		Glock 9 mm	No	No
2. T&T Trucking	Bakersfield, CA	9/12/2018			No e	No e
3. Fifth Third Center	Cincinnati, OH	_ 8/6/2018		9mm handgun	No	No
4. Capital Gazette	Annapolis, MD	- 6/28/2018		12-gauge pump-action shotgun	No	No
5. Santa Fe High School	Santa Fe, TX	5/18/2018		shotgun; .38 revolver	No	No
6. Waffle House	Nashville, TN	- 4/22/2018		AR-15	Yes f	Yes f
7. Yountville Veterans Home	Yountville, CA	3/9/2018		semiautomatic rifle; shotgun	on o	50
8. Stoneman Douglas HS	Parkland, FL	2/14/2018		AR-15	No h	No h
9. Pennsylvania Carwash	Melcroft, PA	1/28/2018		semiautomatic rifle and semiautomatic handgun		
10. Rancho Tehama	Rancho Tehama, CA	11/14/2017		Two illegally modified rifles	Yes j	Yes j
11. Texas First Baptist Church	Sutherland Springs, TX	11/5/2017		Ruger AR-556; Kelley also possessed semiautomatic handguns	Yes k	Yes k
12. Suburban Denver Walmart	Thornton, CO	11/1/2017		semiautomatic handgun	No	No
13. Edgewood Business Park	Edgewood, MD	10/18/2017		.380-caliber; make unclear	No 1	No 1
14. Las Vegas Strip	Las Vegas, NV	10/1/2017		AR-15-style and AK-47-style rifles and "a large cache of ammunition"; four Daniel Defense DDM4 rifles, three FN-15s and other rifles made by Sig Sauer.	Yes m	Yes m
15. San Francisco UPS	San Francisco, CA	6/14/2017		MAC-10-style "assault pistol"; 30-round magazine. An additional box of ammunition.	Yes n	No n
16. Pennsylvania Supermarket	Tunkhannock, PA	- 6/7/2017		shotguns	o oN	No o
17. Fiamma Workplace	Orlando, FL	6/5/2017		semiautomatic handgun	No	No
18. Ohio Nursing Home	Kirkersville, OH	5/12/2017	Page 1 of 17	handgun, shotgun	No No Def. Exhibit 5	_{No} nibit 5

Case 8:17-cv-00746-JLS-JDE Document 76-5 Filed 03/25/19 Page 25 of 40 Page ID Appendix 524 List of Firearms Used in Public Mass Shootings

1982 - September 2018

		·	Weapon Description From		Assault	Assault
Case	Location	Date	CCC ^a	b Mother Jones	Weapon?	Riffle?
(1)	(2)	(3)	(4)	(5)	(9)	(7)
19. Fresno Downtown	Fresno, CA	4/18/2017		.357 revolver	No	No
20. Fort Lauderdale Airport	Fort Lauderdale, FL	1/6/2017		Walther 9mm semi-automatic pistol	No	No
21. Cascade Mall	Burlington, WA	9/23/2016		Ruger .22-caliber	No p	No P
22. Baton Rouge Police	Baton Rouge, LA	7/17/2016		IWI Tavor SAR 5.56 caliber rifle, Springfield XD 9, 9mm	Yes q	Yes q
23. Dallas Police	Dallas, TX	7/7/2016		Izhmash-Saiga 5.45mm (AKstyle) semiautomatic rifle with large capacity magazines; Glock 9mm handgun, 2.5-caliber semiautomatic handgun	Yes r	Yes r
24. Orlando Nightclub	Orlando, FL	6/12/2016		Sig Sauer MCX rifle, Glock 17 9mm; high-capacity magazines (30 rounds)	Yes s	Yes s
25. Excel Industries	Hesston, KS	2/25/2016		Zastava Serbia AK-47-style rifle, Glock Model 22 .40-caliber handgun; high-capacity magazines (30 rounds)	Yes t	Yes t
26. Kalamazoo	Kalamazoo County, MI	2/20/2016		9 mm handgun (ammo used unclear)	No	No
27. San Bernardino	San Bernardino, CA	12/2/2015	,	Two semiautomatic AR-15-style rifles—one a DPMS A-15, the other a Smith & Wesson M&P15, both with .223 calibre ammunition. Two 9mm semiautomatic handguns. High capacity magazines.	Yes u	Yes u
28. Planned Parenthood Clinic	Colorado Springs, CO	11/27/2015		Reportedly an AK-47 style semiautomatic rifle and others. Authorities had not released details on Dear's weapons as of April 2016.	Yes v	Yes v
29. Colorado Springs	Colorado Springs, CO	10/31/2015		AR-15 rifle , a 9 mm pistol, and a 357 revolver	Yes W	Yes w
32:			Page 2 of 17			

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			Weapon Description From		Assault	Assault
Case	Location	Date	CCC ^a	b Mother Jones	Weapon?	Rifle?
(1)	(2)	(3)	(4)	(5)	(9)	(7)
30. Umpqua Community College	Roseburg, OR	10/1/2015		9 mm Glock pistol, .40 caliber Smith & Wesson, .40 caliber Taurus pistol, .556 caliber Del- Ton; (ammo details unclear)	×°	×
31. Chattanooga Military Center	Chattanooga, TN	7/16/2015		AK-47, AR-15, and 30-round magazines; 9mm handgun	Yes y	Yes y
32. Charleston Church	Charleston, SC	6/17/2015		.45-caliber Glock (model 41, with 13-round capacity magazine)	°Z	°Z
33. Trestle Trail Bridge	Menasha, WI	6/11/2015		Two handguns; Details unclear, but after the shooting, police found eight guns in total in Valencia del Toro's home, including handguns, shotguns, and rifles, plus and more than 1,000 rounds of ammunition. He took two weapons and ammunition to the bridge.	°Z	Š
34. Marysville High School	Marysville, WA	10/24/2014		Beretta .40-caliber handgun	No	No
35. Isla Vista	Santa Barbara, CA	5/23/2014		Two Sig Sauer P226 semiautomatic pistols and Glock 34 pistol, and hundreds of rounds of ammo. A 6- inchand 8-inch "SRK" and "Boar Hunter" hunting knives.	°Z	Ŝ
36. Fort Hood	Fort Hood, TX	4/3/2014		.45-caliber Smith & Wesson handgun	No	No
37. Alturas Tribal	Alturas, CA	2/20/2014		9mm semi-automatic handgun	No	No
38. Washington Navy Yard	Washington, D.C.	9/16/2013		Remington 870 Express 12-gauge shotgun; Beretta handgun	°Z	°Z
39. Hialeah	Hialeah, FL	7/26/2013		Glock 17	No	No

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List of Firearms Used in Public Mass Shootings

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Case 8:17-cv-00746-JLS-JDE Document 76-5 Filed 03/25/19 Page 28 of 40 Page ID Appendix 527 List of Firearms Used in Public Mass Shootings

1982 - September 2018

			Weapon Description From	m	Assault	Assault
Case	Location	Date	CCC ^a	b Mother Jones	Weapon?	Riffe?
(1)	(2)	(3)	(4)	(5)	(9)	(7)
45. Sikh Temple	Oak Creek, WI	8/5/2012	Springfield Armory XD(M) 9mm semiautomatic handgun equipped with a 19-round large capacity ammunition magazine. Weeks before the shooting, Wade legally purchased the handgun and three 19-round large capacity ammunition magazines from a federal firearms licensed dealer in nearby West Allis, WI. According to media reports, Wade served in the U.S. Army from 1992 until 1998, when he was given an other-than-honorable discharge or general discharge. In 1994, while stationed at Fort Bliss in Texas, he was arrested by El Paso police, and pled guilty to a misdemeanor charge of criminal mischief. Federal law does not prohibit persons with convictions for misdemeanors other than domestic violence misdemeanors or persons who have been discharged from the military for reasons other than "dishonorably" from purchasing firearms.	9mm Springfield Armory XDM semiautomatic handgun	Ŝ	Ž
46. Aurora Movie Theater	Aurora, CO	7/20/2012	A Smith & Wesson M&P15 assault rifle equipped with a 100-round drum large capacity ammunition magazine, a Remington Model 870 12-gauge pump shofgun, and two GLOCK.40 caliber handguns, were recovered at the scene by police. In the months leading to the shooting, Holmes purchased the weapons and 6,000-rounds of ammunition at gun shops and over the Internet. In addition to the weapons used in the shooting, Holmes booby-trapped his apartment, rigging trip wire to detonate 30 plastic shells stuffed with gunpowder, several glass jars filled with gasoline and gunpowder, and 10 gallons of gasoline in canisters.	Two .40-caliber Glock semiautomatic handguns; .223-caliber Smith & Wesson M&P15 semiautomatic rifle; 12-gauge Remington 870 pumpaction shotgun	Yes ad	Yes ad
47. Seattle Café	Seattle, WA	5/30/2012	-	Two .45-caliber semiautomatic handguns	No	No
48. Oikos University	Oakland, CA	4/2/2012		.45-caliber semiautomatic handgun	No	No
49. Su Jung Health Sauna	Norcross, GA	2/22/2012		.45-caliber semiautomatic handgun	No	No
50. Seal Beach	Seal Beach, CA	10/14/2011	-	.45-caliber Heckler & Koch, 9mm Springfield semiautomatic handguns; .44 Magnum Smith & Wesson revolver	No	No
3262			Page 5 of 17		Def. Exhibit 5	hibit 5

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Case 8:17-cv-00746-JLS-JDE Document 76-5 Filed 03/25/19 Page 29 of 40 Page ID Appendix 528 List of Firearms Used in Public Mass Shootings

1982 - September 2018

Assault	Rifle?	(7)	Yes ae	No	°	%	No af	No	Ž	°Z
Assault As	Weapon? Ri	(9)	Yes ae	S S	°Z	o _N	No af	oN S	°Z	S S
u	b Mother Jones	(5)	AK-47 Norinco Arms variant, AK-47 Romarm Cugir variant rifles; .38-caliber Colt revolver		9mm Glock 19 semiautomatic handgun	Two 9mm Ruger SR9 semiautomatic handguns		9mm Glock 17 semiautomatic handgun; .38-caliber Smith & Wesson revolver	FN Five-seven semiautomatic handgun	9mm Beretta, .45-caliber Springffeld semiautomatic handguns
Weapon Description From	CCC	(4)	AK-47 type assault rifle equipped with a 30-round large capacity ammunition magazine. Two additional guns and two more magazines were found in his vehicle.	GLOCK 9mm semiautomatic pistol (unknown model) equipped with a 30-round large capacity ammunition magazine.	GLOCK 19 9mm semiautomatic pistol equipped with a 33-round large capacity ammunition magazine. Loughner was also carrying two 15-round large capacity ammunition magazines, and a knife. The ATF determined Loughner legally purchased the GLOCK pistol with an extended magazine and one box of Winchester ammunition on November 30, 2010, from Sportsman's Warehouse in Tucson.	Two Ruger SR9 9mm semiautomatic pistols equipped with 17-round magazines. Thornton purchased both firearms legally from an East Windsor, CT gun dealer.		,	FN Herstal 5.7 Tactical Pistol equipped with 20-round large capacity annuunition magazine. When Hasan was apprehended, investigators found in his possession 177-rounds in 30-round and 20-round large capacity ammunition magazines, another handgun, a revolver, and two gunsights (for different lighting conditions). Hasan purchased the FN Herstal 5.7 Tactical Pistol legally at Guns Galore, a shop in Killeen, TX	Beretta 45-caliber semiautomatic pistol, Beretta 9mm semiautomatic pistol (models unknown), and two 30-round large capacity ammunition magazines and two 15-round large capacity ammunition magazines.
'	Date	(3)	9/6/2011	7/7/2011	1/8/2011	8/3/2010	6/6/2010	11/29/2009	11/5/2009	4/3/2009
	Location	(2)	Carson City, NV	Grand Rapids, MI	Tucson, AZ	Manchester, CT	Hialeah, FL	Parkland, WA	Fort Hood, TX	Binghamton, NY
	Case	(1)	51. IHOP	52. Grand Rapids	53. Tucson	54. Hartford Beer Distributor	55. Yoyito Café	56. Coffee Shop Police	57. Fort Hood	58. Binghamton

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			Weapon Description From		Assault	Assault
Case	Location	Date	CCC	b Mother Jones	Weapon?	d Rifle?
(1)	(2)	(3)	(4)	(5)	(9)	(7)
59. Carthage Nursing Home	Carthage, NC	3/29/2009		Winchester 1300 pump-action shotgun; .357 Magnum revolver	No	No
60. Atlantis Plastics	Henderson, KY	6/25/2008		.45-caliber Hi-Point semiautomatic handgun	N _o	N _o
61. Northern Illinois University	DeKalb, IL	2/14/2008	SIG SAUER Kurz 9mm semiautomatic pistol, Hi-Point CF380 .380 caliber semiautomatic pistol, GLOCK 19 9mm semiautomatic pistol, Remington Sportsman 48 12-gauge shotgun, and 33-round and 15-round large capacity ammunition magazines. Kazmierczak purchased all four weapons from Tony's Gun & Ammo in Champaign, IL between August 3, 2007 and February 9, 2008. Kazmierczak also purchased gun accessories from a website operated by TGSCOM, Inc., the same company patronized by the VA Tech shooter.	9mm Glock 19, Hi-Point CF380, 9mm Kurz SIG Sauer P232 semiautomatic handguns; 12- gauge Remington Sportsman 48 sawed-off shotgun	No agg	No aga
62. Kirkwood City Council	Kirkwood, MO	2/1/2008	,	.40-caliber Smith & Wesson semiautomatic handgun; .44 Magnum Smith & Wesson Model 29 revolver	Š	Š
Westroads Mall	Omaha, NE	12/5/2007	WASR-10 semiautomatic assault rifle and two 30-round large capacity ammunition magazines.	WASR-10 Century Arms semiautomatic rifle	Yes ah	Yes ah
64. Crandon	Crandon, WI	10/7/2007		AR-15 SWAT semiautomatic rifle	ai	ai.

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1982 - September 2018

Assault	Riffe?	(7)	Ö	S _Z	No aj	Yes ak	Š	
Assault	Weapon?	(9)	Ž	Š	No aj	Yes ak	Š	
u	b Mother Jones	(5)	9mm Glock 19, .22-caliber Walther P22 semiautomatic handguns	Mossberg Maverick 88 Field shotgun; 38-caliber Smith & Wesson M36 revolver	Springfield semiautomatic handgun; .30-06 Ruger bolt-action rifle; 12-gauge Browning pumpaction shotgun	.40-caliber Ruger, one other semiautomatic handgun; Bushmaster XM15 E2S semiautomatic rifle, 12-gauge Winchester Defender pump-action shotgun with extended tube and pistol grip	9mm Smith & Wesson 915 semiautomatic handgun	
Weapon Description From	CCC ^a	(4)	GLOCK 19 9mm semiautomatic pistol and Walther P22 .22-caliber semiautomatic pistol. Investigators found a total of 17 empty magazines at the scene of the shooting, a mix of several 15-round, and 10-round magazines loaded with hollow-point rounds (bullets with the tip hollowed out, designed to expand upon impact). He possessed over 400 rounds of ammunition. Cho ordered the Walther P22 from a website operated by TGSCOM, Inc. Kazmierczak patronized the same company before the NIU shooting. On February 9, 2007, Cho picked up the pistol from J-N-D Pawn-brokers, located across the street from the VA Tech campus. In compliance with the state law limiting handgun purchases to one every 30 days, Cho purchased froe 10-round magazines from eBay in March. Cho's purchase of these firearms was in violation of federal law; he was disqualified from purchasing or possessing a firearm and ammunition, because a special justice of the Montgomery County General District Court had found him to be a danger to himself on December 14, 2005.				Smith & Wesson 915 9mm semiautomatic handgun equipped with a 15-round large capacity ammunition magazine. San Marco purchased the firearm at a pawn shop in New Mexico in August 2005.	Page 8 of 17
'	Date	(3)	4/16/2007	2/12/2007	10/2/2006	3/25/2006	1/30/2006	
	Location	(2)	Blacksburg, VA	Salt Lake City, UT	Lancaster County, PA	Seattle, WA	Goleta, CA	
	Case	(1)	65. Virginia Tech	66. Trolley Square	67. Amish School	68. Capitol Hill	69. Goleta Postal	320

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			Weapon Description From		Assault	Assault
Case	Location	Date	${ m ccc}^{ m a}$	b Mother Jones	Weapon?	Rifle?
(1)	(2)	(3)	(4)		(9)	(7)
70. Red Lake	Red Lake, MN	3/21/2005		.40-caliber Glock 23, .22-caliber Ruger semiautomatic handguns; 12-gauge Remington 870 shotgun	No	No
71. Living Church of God	Brookfield, WI	3/12/2005	1	9mm Beretta semiautomatic handgun	No	No
72. Damageplan Show	Columbus, OH	12/8/2004		9mm Beretta 92FS semiautomatic handgun	No	No
73. Hunting Camp	Meteor, WI	11/21/2004	SKS 7.62mm semiautomatic assault rifle equipped with a 20-round large capacity ammunition magazine.	,	Yes al	Yes al
74. Windy City Warehouse	Chicago, IL	8/27/2003			No am	No am
75. Lockheed Martin	Meridian, MS	7/8/2003		.45-caliber Ruger P90 semiautomatic handgun; .22-caliber rifle with scope, .223-caliber Ruger Mini-14 rifle; 12-gauge Winchester 1300 shotgun; .22 Magnum derringer	No an	No an
76. Navistar	Melrose Park, IL	2/5/2001		SKS 1954R, .30-caliber Winchester rifles; 12-gauge Remington pump-action shotgun; .38-caliber revolver	No ao	No ao
77. Wakefield	Wakefield, MA	12/26/2000	AK-47-type semiautomatic assault rifle, unknown make and model 12-gauge shotgun, unknown make and model .32-caliber semiautomatic pistol, and 60-round large capacity ammunition magazine.	.32-caliber Retolaza semiautomatic handgun; AK-47 variant semiautomatic riffe; 12-gauge Winchester 1300 pumpaction shofgun	ap -	ap -
78. Hotel	Tampa, FL	12/30/1999		9mm Lorcin semiautomatic handgun; .38-caliber Charter Arms revolver	No	No

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			Weapon Description From		Assault	Assault
Case	Location	Date	ccc^a	b Mother Jones	Weapon?	Rifle?
(1)	(2)	(3)	(4)	(5)	(9)	(7)
	Honolulu, HI	11/2/1999	GLOCK 17 9mm semiautomatic pistol and three 17-round large capacity ammunition magazines, loaded with hollow point bullets (bullets with the tip hollowed out, designed to expand upon impact). Uyesugi legally purchased the GLOCK in 1989.	9mm Glock 17 semiautomatic handgun	Ž	Š
Wedgwood Baptist Church	Fort Worth, TX	6/12/1999	Ruger P85 9mm semiautomatic pistol, unknown make and model .380 caliber semiautomatic pistol, and three 15-round large capacity ammunition magazines. Ashbrook legally acquired both weapons from federally licensed firearms dealers in 1992.	.380-caliber, 9mm Ruger P85 semiautomatic handguns	8Z	ž
Atlanta Day Trading	Atlanta, GA	7/29/1999		.45-caliber Colt 1911-A1, 9mm Glock 17, .25-caliber Raven Arms MP-25 semiautomatic handguns; .22-caliber Harrington & Richardson revolver	Š	Š
Columbine High School	Littleton, CO	4/20/1999	Savage Springfield 67H 12-gauge pump-action shotgun, Savage Stevens 31ID 12-gauge sawedoff shotgun, Hi-Point 995 9mm semiautomatic rifle, INTRATEC TEC-DC9 9mm semiautomatic pistol, and thirteen 10-round magazines, one 52-, one 28-round large capacity ammunition magazines. Harris and Klebold illegally acquired the shotguns and Hi- Point rifle through a "straw purchase" (a transaction in which a legal buyer makes a purchase for someone who cannot legally purchase the firearm). Their friend, Robyn Anderson, purchased the three firearms at the Tanner Gun Show from unlicensed sellers in December of 1998. A pizza shop employee, Mark Manes, illegally sold them the	9mm Intratec DC-9 semiautomatic handgun; 9mm Hi-Point 995 carbine rifle; 12- gauge sawed-off Savage Stevens 311D, 12-gauge sawed-off Savage Springfield 67H pump-action shotguns	Yes aq	Yes aq
Thurston High School	Springfield, OR	5/21/1998	GLOCK 19 9mm semiautomatic pistol, Ruger (unknown model) .22-ealiber semiautomatic pistol, Ruger (unknown model) .22-ealiber rifle, and a 50-round large capacity ammunition magazine. The GLOCK and rifle were legally purchased by Kinkel's father.	9mm Glock, .22-caliber Ruger semiautomatic handguns, .22- caliber Ruger rifle	No ar	No ar

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р . ;		as		S			at		s an
Rifle?	(7)	Ž	No	Yes	No	No	No	Š	Yes
Weapon?	(9)	No as	No	Yes	No	No	No at	No	Yes au
b Mother Jones	(5)	FIE 380, .380-caliber Star semiautomatic handguns; .44 Magnum Ruger, .30-06 Remington 742, .30-caliber Universal M-1 carbine replica rifles; .38-caliber Charter Arms, .357-caliber Ruger Security Six, .38-caliber Smith & Wesson revolvers; .22-caliber Double Deuce Buddie two-shot, .38-caliber Davis Industries two-shot derringers	9mm semiautomatic handgun	7.62mm AK-47 Chinese variant semiautomatic rifle	9mm semiautomatic handgun	9mm Glock semiautomatic handgun; .32-caliber revolver		9mm Ruger semiautomatic handgun; .32-caliber revolver	MAK-90 semiautomatic rifle
CCC	(4)	Universal MI Carbine .30-caliber replica, Davis Industries .38-caliber two-shot derringer, Double Deuce Buddie .22-caliber two-shot derringer, Charter Arms .38-caliber revolver, Star .380-caliber pistol, FIE .380-caliber pistol, Ruger Security Six .357-caliber revolver, Ruger .44 magnum rifle, Smith & Wesson .38-caliber revolver, Remington 742 .30-06-caliber rifle, 15-round large capacity ammunition magazines, three 30-rounds of ammunition.	GLOCK model unknown 9mm semiautomatic pistol equipped with a 19-round large capacity ammunition magazine. Beck had a permit for the 9mm pistol used in the shooting.	Chinese-made AK-47-type 7.62mm semiautomatic assault rifle and five 30-round large capacity ammunition magazines. Torres legally purchased the rifle on April 30, 1988, from B&B Gun Sales in Orange County, CA.					Chinese-made Mak-90 semiautomatic assault rifle equipped with a 75-round drum large capacity ammunition magazine. He purchased the assault rifle on June 15, 1994, five days before the shooting, and the following day purchased 80 rounds of 7.62x39mm ammunition and a 75-round drum large capacity ammunition magazine.
Date	(3)	3/24/1998	3/6/1998	12/18/1997	9/15/1997	2/9/1996	7/19/1995	4/3/1995	6/20/1994
Location	(2)	Jonesboro, AR	Newington, CT	Orange, CA	Aiken, SC	Fort Lauderdale, FL	Los Angeles, CA	Corpus Christi, TX	Fairchild Base, WA
Case	(1)	84. Westside Middle School	85. Connecticut Lottery	86. Caltrans Maintenance Yard	87. R.E. Phelon Company	88. Fort Lauderdale	Piper Technical Center	90. Walter Rossler Company	91. Air Force Base

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Assault	Rifle?	(7)	No	°Z	No av	No aw	No	No ax	No ay	No	No	No az
	Weapon?	(9)	No	°N	No av	Yes aw	No	No ax	No ay	No	°Z	No az
	Mother Jones	(5)	25-caliber semiautomatic handgun	9mm Ruger P89 semiautomatic handgun	.22-caliber rifle; two 12-gauge shotguns	Two Intratec DC-9, .45-caliber Colt semiautomatic handguns	9mm Llama semiautomatic handgun	.22-caliber sawed-off rifle; 12-gauge pump-action shotgun	.22-caliber Ruger sawed-off semiautomatic rifle	.38-caliber Taurus revolver	9mm Glock 17, 9mm Ruger P89 semiautomatic handguns	.30-caliber Universal M1 carbine rifle; .38-caliber revolver
Weapon Description From	CCC	(4)		Ruger P89 9mm semiautomatic pistol and four 15-round large capacity ammunition magazines. Ferguson legally acquired the weapon in California at an outlet of Turner's Outdoorsman.		Two INTRATEC TEC-DC9 semiautomatic pistols, Colt (unknown model) .45-caliber semiautomatic pistol, and 40-round and 50-round large capacity ammunition magazines loaded with a mix of Black Talon and standard ammunition. According to the Las Vegas Metropolitan Police Department, Ferri purchased the pistols from two stores in Las Vegas: Super Pawn and Pacific Tactical Weapons.					GLOCK 17 9mm semiautomatic pistol, Ruger P89 semiautomatic pistol, and 17-round and 15- round large capacity ammunition magazines. Hennard legally purchased the weapons from Mike's Gun Shop in Henderson, NV, in February and March of 1991.	Universal MI .30-caliber semiautomatic assault rifle, unknown make and model .38-caliber revolver, and a 30-round large capacity ammunition magazine.
•	Date	(3)	12/14/1993	12/7/1993	8/6/1993	7/1/1993	10/15/1992	5/1/1992	11/14/1991	11/1/1991	10/16/1991	6/18/1990
	Location	(2)	Aurora, CO	Garden City, NY	Fayetteville, NC	San Francisco, CA	Watkins Glen, NY	Olivehurst, CA	Royal Oak, MI	Iowa City, IA	Killeen, TX	Jacksonville, FL
	Case	(1)	92. Chuck E. Cheese	93. Long Island Railroad	94. Luigi's Restaurant	95. 101 California Street	96. Watkins Glen	97. Lindhurst High School	98. Royal Oak Postal	99. University of Iowa	100. Luby's Cafeteria	101. GMAC

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Assault	Rifle?	(7)	Yes	Yes	No ba	No bb	No bc
Assault	Weapon?	(9)	Yes	Yes	No ba	99 °N	, b
	b Mother Jones	(5)	Two Intratec MAC-11, 9mm SIG Sauer semiautomatic handguns; AK-47 Chinese variant semiautomatic rifle; .38-caliber revolver	9mm Taurus semiautomatic handgun; AK-47 Chinese variant semiautomatic rifle	380 ACP Browning, 9mm Smith & Wesson semiautomatic handguns; Ruger M-77. 22-250 bolt-action rifle with scope; Mossberg 12-gauge Benelli semiautomatic shotguns; 357 Magnum Smith & Wesson, 22 Sentinel WMR revolvers	Sturm, Ruger Mini-14 semiautomatic rifle; 20-gauge Winchester pump-action shotgun; .357 Ruger Blackhawk revolver	.22-caliber, two .45-caliber Colt Model 1911-A1 semiautomatic handguns
Weapon Description From	CCC ^a	(4)	Chinese-made AK-47-type semiautomatic assault rifle, two INTRATEC MAC-11 semiautomatic assault pistols, SIG SAUER unknown model 9mm semiautomatic pistol, unknown make and model .38-caliber revolver, and 30-round large capacity ammunition magazines. Wesbecker legally purchased the AK-47-type assault rifle from Tilford's Gun Sales in Louisville.	Chinese-made AK-47-type semiautomatic assault rifle, Taurus unknown model 9mm semiautomatic pistol, a 75-round large capacity ammunition drum magazine, a 75-round large capacity ammunition rotary magazine, and four 35-round large capacity ammunition banana magazines. Purdy legally purchased the AK-47-type rifle at Sandy Trading Post, in Sandy, OR on August 3, 1988, and the Taurus 9mm pistol at Hunter Loan and Jewelry Co. in Stockton, CA on December 28, 1988.	,	Strum, Ruger Mini-14 semiautomatic assault rifle equipped with a 30-round large capacity ammunition magazine, five 30-round large capacity ammunition magazines, 180 rounds of ammunition, a shotgun (unknown make and model). Cruse ordered the assault rifle on March 21, 1987. On April 17, 1987, he purchased 100-rounds of ammunition and six 30-round large capacity ammunition magazines.	,
'	Date	(3)	9/14/1989	1/17/1989	2/16/1988	4/23/1987	8/20/1986
	Location	(2)	Louisville, KY	Stockton, CA	Sunnyvale, CA	Palm Bay, FL	Edmond, OK
	Case	(1)	102. Standard Gravure Corporation	103. Stockton Schoolyard	104. ESL	105. Shopping Centers	106. United States Postal Service

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List of Firearms Used in Public Mass Shootings 1982 – September 2018

				ı	
Assault	Riffe?	(7)	Yes	pq oN	°N
Assault	Weapon?	(9)	Yes	pq oN	No
m	b Mother Jones	(5)	9mm Browning P35 Hi-Power semiautomatic handgun; 9mm Israeli Military Industries Uzi Model A carbine semiautomatic rifle; 12-gauge Winchester 1200 pump-action shotgun	9mm Smith & Wesson 459 semiautomatic handgun	Mossberg 500 Persuader pumpaction shotgun with pistol grip
Weapon Description From	CCC ^a	(4)			
	Date	(3)	7/18/1984	6/29/1984	8/20/1982
	Location	(2)	San Ysidro, CA	Dallas, TX	Miami, FL
	Case	(1)	107. San Ysidro McDonald's	108. Dallas Nightclub	109. Welding Shop

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List of Firearms Used in Public Mass Shootings 1982 – September 2018

Assault	Rifle?	(7)
Assault	Weapon?	(9)
rom	b Mother Jones	(5)
Weapon Description From	CCC ^a	(4)
	Date	(3)
	Location	(2)
	Case	(1)

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List of Firearms Used in Public Mass Shootings 1982 – September 2018

Assault	Rifle?	(7)
Assault	Weapon?	(9)
rom	b Mother Jones	(5)
Weapon Description From	${ m CCC}^a$	(4)
	Date	(3)
	Location	(2)
	Case	(1)

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List of Firearms Used in Public Mass Shootings 1982 – September 2018

Assault	c Rifte?	(7)
Assault	Weapon?	(9)
Description From	b Mother Jones	(5)
Weapon	CCCa	(4)
ı	Date	(3)
	Location	(2)
	Case	(1)

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Exhibit 6

Numbers of Fatalities and Injuries in Public Mass Shootings - Updated¹

	# of		Average # of	
Weapon Used	Incidents	Fatalities	Injuries	Total
Assault Weapon	28	11	28	39
Assault Rifle	26	12	30	41
No Assault Weapon	77	6	5	11
Unknown	4	8	2	10
a ⁹				
Large-Cap. Mag.	59	10	17	27
No Large-Cap. Mag.	33	6	3	9
Unknown	17	4	4	8
Assault Weapon & Large-Cap. Mag.	26	12	29	41
Assault Rifle & Large-Cap. Mag.	24	· 12	32	44
Large-Cap. Mag. only	31	8	8	16
No Assault Weapon or Large-Cap. Mag.	32	6	3	9
Unknown	20	5	4	9

Notes and Sources:



¹ Casualty figures *exclude* the shooter. LCM classification and casulaties updated based on review of stories from Factiva/Google searches. Assault weapon classification updated for news released in November 2018 re incident #7, Yountville Veterans Home.

https://www.mercurynews.com/2018/11/06/report-pathway-home-shooter-orderedall-vets-out-before-killing-three-clinicians/

News > California News • News

Yountville Veterans Home shooter ordered all vets out of room before executing three clinicians, report says

By MATTHIAS GAFNI | mgafni@bayareanewsgroup.com | Bay Area News Group PUBLISHED: November 6, 2018 at 4:58 pm | UPDATED: November 7, 2018 at 3:53 pm

YOUNTVILLE - After leaving an apology note with his landlord, Albert Wong walked into the Yountville Veterans Home carrying a loaded 12-gauge shotgun and a .308 caliber semi-automatic rifle with a 20-round magazine. He wore safety glasses and ear protection.

It was shortly after 10 a.m. on March 9 and the 36-year-old Army combat veteran went to the second floor "Group Room," where a small gathering of Pathway Home staff and residents were enjoying a going-away party. Wong ordered the veterans to exit the room, according to a report issued Tuesday evening by the Napa County District Attorney's Office. Then, Wong released the staff members, one-by-one, until only three were left: Dr. Jennifer Gonzales Shushereba, who was seven months pregnant; Dr. Jennifer Golick; and Pathway Home Executive Director Christine Loeber.

Within 12 minutes, all three women and Wong would be dead in the mass shooting, despite the efforts of a single Napa County Sheriff's deputy, the only law enforcement officer who arrived in time.

The report, along with a summary of the incident released by the CHP, provides the most extensive details to date of what happened on March 9 at the bucolic veteran's home and the Pathway Home nonprofit that helps traumatized veterans of Iraq and Afghanistan return to civilian life. The Napa County DA determined Sheriff's Deputy Steven Lombardi was justified in shooting through a door at Wong during a brief, but hellacious firefight.

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The report said Wong killed himself and acted alone in the shooting.

Wong, who drove a rental car to Madison Hall on the Yountville campus, was a former resident who was discharged Feb. 20 due to "his refusals to comply with program policies and treatment plan," according to the report.

"Wong had expressed extreme anger and frustration toward the clinical staff due to many prior disagreements and his recent discharge from the program," the report said.

He previously had made death threats against the three women he targeted.

"These death threats were not generalized; rather, he had specifically (threatened) to kill members of the clinical staff by coming onto the premises and shooting them with a gun," the report said.

Wong carried three extra 20-round magazines in a tactical belt around his waist, along with a dozen shotgun shells. He entered the room at 10:19 a.m. Staff members who were allowed to leave the room called 911 two minutes later reporting: "We have an active shooter."

Deputy Lombardi, a 26-year veteran of the sheriff's office, was on patrol in Yountville and reached the veteran's home in four minutes. Lombardi — who had served as the department's range instructor for almost a decade — had a rifle and two handguns. A staff member flagged him down and directed him to a stairwell to reach the second floor, where Wong had taken hostages.

"Deputy Lombardi refused to allow the Pathway Home employee to accompany him to the second floor because he feared for the employee's safety," the report said. He was the only officer at the facility at that point and was "gravely concerned for the safety of the hostages."

When he reached the second floor Lombardi could not locate the gunman, and began clearing rooms by himself. He reached the "Group Room" and partially pushed open the closed metal door, spotting the suspect holding a rifle. He let go of the door and backed up to take cover, the report said.

"Deputy Lombardi then heard the rifle held by the gunman being racked and the scream of a woman," the report said. "Deputy Lombardi feared for the safety of the screaming woman and determined he needed to kill the suspect to save her life, stating 'I didn't want her to die.'"

At 10:31 a.m., Lombardi fired his .223 rifle through the metal door at the last location where he saw the suspect. The suspect began firing back through the door at him and Lombardi returned more fire and retreated to a safe position, according to the report. A photo of the door is attached to the DA's report, showing about 20 bullet holes in the door and adjacent wall.

Lombardi reloaded his rifle and waited for Wong to exit the room. What he didn't know then was everyone inside the room was already dead.

Physical evidence at the scene determined that immediately after the shootout with the deputy, Wong executed the three women using his rifle, before killing himself with the shotgun, the report said.

Lombardi fired a total of 13 rounds from his rifle during the 10-second gun battle. Wong fired 22 rounds from his .308 caliber rifle. Autopsies found no bullets fired by Lombardi struck the three women.

Six minutes after the first shot was fired, more officers arrived but the gunfight was over.

Investigators later found an apology by Wong to his landlord, implying he would not return. The DA determined Wong planned the murders. She determined Lombardi's decision to fire through the door was a "reasonable and lawful response under the totality of the circumstances."

The final report also included photos of Wong's rifle and shotgun, along with his ammo belt.

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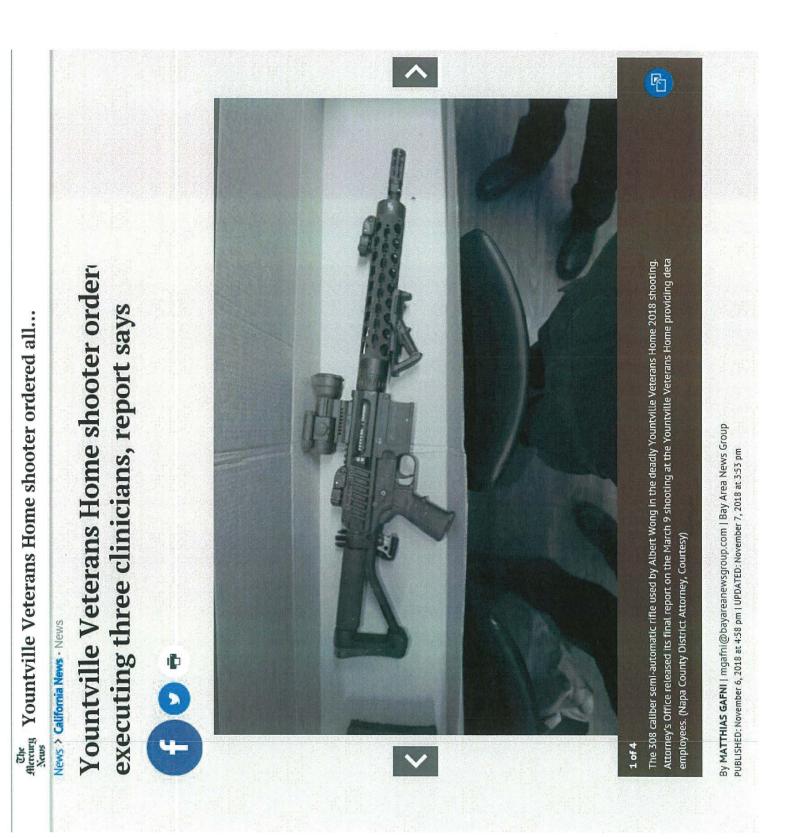
Tags: Mass Shootings, Military, PM Report, Police Shootings, Regional, Veterans

Matthias Gafni Matthias Gafni is a Pulitzer Prize winning investigative reporter for the Bay Area News Group. He has reported and edited for Bay Area newspapers since he graduated from UC Davis, covering courts, crime, environment, science, child abuse, education, county and city government, and corruption. A Bay Area native, he loves his Warriors, Giants and 49ers. Send tips to 925-952-5026 or mgafni@bayareanewsgroup.com. Send him an encrypted text on Signal at 408-921-8719 .

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abined Public Mass Shootings Data 1982 – September 2018

1																														
Offenders' Number of Guns	(13)	1	1	1	1	2	1	2	1	3 f	2	1	1	1	23	2	2	1	2	1	1	1	33	3	2	2	1	4	1	3
Gun(s) Obtained Legally? e	(12)	Yes			Yes		Yes	Yes	Yes		No	Yes		No	Yes	No					Yes			Yes	Yes	Yes	Yes	Yes		Yes
Shots Fired	(11)	1									30 g	450 h	30^{-1}		1100 j		59 k			16 1	15 m		43 n		110 °			150 P		
Total Fatalities & Injuries ^d	(10)	9	S	\$	7	23	∞	8	34	S	14	46	3	S	480	S	3	\$	3	co.	111	S	9	16	102	17	8	36	12	3
Injuries Excluding Shooter ^d	6)	3	0	2	2	13	4	0	17	1	10	20	0	2	422	2	0	0	0	0	9	0	3	11	53	14	2	22	6	0
Fatalities Excluding Shooter d	(8)	3	5	8	S	10	4	e	17	4	4	26	ю	ю	58	ж	33	5	8	3	S	5	33	S	49	ς.	9	14	3	3
Assault Rifle?c	(7)	No	No	No	No	No	Yes	Yes	No		Yes	Yes	No	No	Yes	No	No	No	No	No	No	No	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes
Assault Weapon? ^C	(9)	No	No	No	No	No	Yes	Yes	No		Yes	Yes	No	No	Yes	Yes	No	No	No	No	No	No	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes
Large Cap Mag.?b	(5)		No	,		No		Yes	Yes	,	Yes	Yes			Yes	Yes	No	No		No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	1	Yes
Source	(4)	MJ	MJ	MJ	MJ	MJ	MJ	MJ	MJ/CC	MJ	MJ	MJ/CC	MJ	MJ	MJ/CC	MJ	MJ	MJ/CC	MJ	MJ	MJ/CC	MJ/CC	MJ	MJ/CC	MJ/CC	MJ	MJ	MJ/CC	MJ	MJ
Date	(3)	9/20/2018	9/12/2018	9/6/2018	6/28/2018	5/18/2018	4/22/2018	3/9/2018	2/14/2018	1/28/2018	11/14/2017	11/5/2017	11/1/2017	10/18/2017	10/1/2017	6/14/2017	6/7/2017	6/5/2017	5/12/2017	4/18/2017	1/6/2017	9/23/2016	7/17/2016	7/7/2016	6/12/2016	2/25/2016	2/20/2016	12/2/2015	11/27/2015	10/31/2015
Location	(2)	Perryman, MD	Bakersfield, CA	Cincinnati, OH	Annapolis, MD	Santa Fe, TX	Nashville, TN	Yountville, CA	Parkland, FL	Melcroft, PA	Rancho Tehama, CA	Sutherland Springs, TX	Thornton, CO	Edgewood, MD	Las Vegas, NV	San Francisco, CA	Tunkhannock, PA	Orlando, FL	Kirkersville, OH	Fresno, CA	Fort Lauderdale, FL	Burlington, WA	Baton Rouge, LA	Dallas, TX	Orlando, FL	Hesston, KS	Kalamazoo County, MI	San Bernardino, CA	Colorado Springs, CO	Colorado Springs, CO
Case	(1)	1. Rite Aid Warehouse	2. T&T Trucking	3. Fifth Third Center	4. Capital Gazette	5. Santa Fe High School	6. Waffle House	7. Yountville Veterans Home	8. Stoneman Douglas HS	9. Pennsylvania Carwash	10. Rancho Tehama	11. Texas First Baptist Church	12. Suburban Denver Walmart	13. Edgewood Business Park	14. Las Vegas Strip	15. San Francisco UPS	16. Pennsylvania Supermarket	17. Fiannna Workplace	18. Ohio Nursing Home	19. Fresno Downtown	20. Fort Lauderdale Airport	21. Cascade Mall	22. Baton Rouge Police	23. Dallas Police	24. Orlando Nightclub	25. Excel Industries	26. Kalamazoo	27. San Bernardino	28. Planned Parenthood Clinic	29. Colorado Springs

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1982 – September 2018

l	Case	Location	Date	Source	Large Cap Mag.?b	Assault Weapon? ^C	Assault Rifle?c	Fatalities Excluding Shooterd	Injuries Excluding Shooter d	Total Fatalities & Injuries ^d	Shots Fired	Gun(s) Obtained Legally? e	Offenders' Number of Guns	
	(1)	(2)	(3)	(4)	(3)	9)	(7)	(8)	6)	(10)	(11)	(12)	(13)	
30. Ui	30. Umpqua Community College	Roseburg, OR	10/1/2015	MJ/CC	,	No	No	6	6	18	•	Yes	9	
31. Cl	31. Chattanooga Military Center	Chattanooga, TN	7/16/2015	MJ/CC	Yes	Yes	Yes	5	2	7		Yes	3	
32. CI	Charleston Church	Charleston, SC	6/17/2015	MJ/CC	Yes	No	No	6	3	12		Yes	1	
33. Tr	Trestle Trail Bridge	Menasha, WI	6/11/2015	MJ	Yes	No	No	8	1	4	1	Yes	2	
34. M	Marysville High School	Marysville, WA	10/24/2014	MJ/CC	Yes	No	No	4	1	5		Stolen	-	
35. Isl	Isla Vista	Santa Barbara, CA	5/23/2014	MJ	No	No	No	9	13	19	50 d	Yes	3	
36. Fc	Fort Hood	Fort Hood, TX	4/3/2014	MJ		No	No	ю	12	15		Yes	1	
37. A.	Alturas Tribal	Alturas, CA	2/20/2014	MJ	ı	No	No	4	7	9	1	·	2	
38. W	Washington Navy Yard	Washington, D.C.	9/16/2013	MJ/CC	No	No	No	12	∞	20	1	Yes	2	
39. Hi	Hialeah	Hialeah, FL	7/26/2013	MJ/CC	Yes	No	No	9	0	9	10 ^r	Yes	1	
40. Sa	Santa Monica	Santa Monica, CA	6/7/2013	MJ/CC	Yes	Yes	Yes	5	3	∞	s 02	Yes	2	
41. Fe	Federal Way	Federal Way, WA	4/21/2013	MJ		No	No	4	0	4		Yes	2	
42. UJ	Upstate New York	Herkimer County, NY	3/13/2013	MJ		No	No	4	2	9	1	Yes	1	
43. No	Newtown School	Newtown, CT	12/14/2012	MJ/CC	Yes	Yes	Yes	27	2	29	154	Stolen	4/3	
44. Ac	Accent Signage Systems	Minneapolis, MN	9/27/2012	MJ/CC	Yes	No	No	9	2	8	46	Yes	1	
45. Si	Sikh Temple	Oak Creek, WI	8/5/2012	MJ/CC	Yes	No	No	9	4	10		Yes	1	
46. Aı	Aurora Movie Theater	Aurora, CO	7/20/2012	MJ/CC	Yes	Yes	Yes	12	70	82	80	Yes	4	
47. Se	Seattle Café	Seattle, WA	5/30/2012	MJ/CC	No	No	No	5	1	9		Yes	2	
48. Oi	Oikos University	Oakland, CA	4/2/2012	MJ/CC	No	No	No	7	3	10	1	Yes	1	
49. Su	Su Jung Health Sauna	Norcross, GA	2/22/2012	MJ	ı	No	No	4	0	4	1	Yes	1	
50. Se	Seal Beach	Seal Beach, CA	10/14/2011	MJ/CC	No	No	No	8	1	6	1	Yes	3	
51. IE	IHOP	Carson City, NV	9/6/2011	MJ/CC	Yes	Yes	Yes	4	7	11		Yes	3	
52. Gı	Grand Rapids	Grand Rapids, MI	7/7/2011	CC	Yes	No	No	7	2	6	10		1	
53. Tu	Tucson	Tucson, AZ	1/8/2011	MJ/CC	Yes	No	No	9	13	19	33	Yes	1	
54. Ha	Hartford Beer Distributor	Manchester, CT	8/3/2010	MJ/CC	Yes	No	No	8	2	10	11	Yes	2	
55. Yo	Yoyito Café	Hialeah, FL	6/6/2010	CC	No	No	No	4	3	7	9 t	•	•	
56. Cc	Coffee Shop Police	Parkland, WA	11/29/2009	MJ/CC	No	No	No	4	0	4	1	Stolen	2	
57. Fc	Fort Hood	Fort Hood, TX	11/5/2009	MJ/CC	Yes	No	No	13	32	45	214	Yes	1	
58. Bi	58. Binghamton	Binghamton, NY	4/3/2009	MJ/CC	Yes	No	No	13	4	17	66	Yes	7	

Page 2 of 6

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1982 – September 2018

61.

67.

73.

76.

Gun(s) Offenders Obtained Number of Legally? e Guns	2) (13)	. 2		4		len 2																						1/6		
Shots Obtained Fired Legally?	(11) (12)	- Yes	- Yes	54 Yes	- Stolen	14 Stolen		n	n	n	n	5	n n	=	3	5	5 >	3 >	3 >	3 >	3 >	5	3	3 >	3 >	3 >	3 >	3 >	3 >	5
		10	9	26	7	13	t	_																						
s 10tal ng Fatalities & Injuriesd	(10)																													
Excluding Shooter d	6	2	1	21	1	5	1		17	17	17	71 4 4 5 2 2	17 4 4 5 5 5 0 0 0 0	17 4 4 4 5 5 5 7 7 7 7 7 7 7 7 7 7 7 7 7	71	7 4 8 6 7 7 8 8	7 4 4 7 0 0 7 4 8 8 2 2	17	7 4 8 2 0 0 7 4 8 8 8	7 4 8 0 0 0 7 4 8 0 0 8 4	7 4 8 6 0 0 7 4 8 8 8 9 0 0	L 4 8 0 0 V 4 E 0 0 8 4 0 E	7 4 6 7 0 0 7 4 8 7 0 0 8 7 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1	11. 12. 13. 14. 14. 15. 16. 17. 18. 18. 18. 18. 18. 18. 18. 18	17 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 8 8 8 8 8	17 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	17 2 2 4 4 4 4 4 4 4 6 0 0 0 0 0 0 0 0 0 0 0 0 0	17 2 2 4 4 4 4 4 4 4 4 4 4 4 4 4	17 4 4 4 4 4 4 8 8 8 8 0 0 0 0 0 0 1 3 3 3 3 3 6 0 7 7 7 7 7 7 8 8 8 8 8 8 8 8 8 9 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Excluding Shooterd	(8)	8	5	5	9	8	9		32	32	32 8	32 5 5	32 8 9 7 7	32 3 2 4 6 6 9 6 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	32 3 2 6 7 6 7	32	32	32	32	26 8 8 8 7 6 7 4 9 9 4	25.	25 2	35 8 8 8 9 1 6 1 4 9 9 9 4 1 8 1	25. 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	SE S S S D D D D D D D D D D D D D D D D	32 8 8 9 7 7 7 7 7 7 8 9 9 9 9 7 7 7 7 7 8 9 9 9 9	35 8	32 8 8 9 7 7 7 7 7 8 8 8 8 8 8 8 8 8 8 8 8	32	35 8
Assault C Rifle?c	(7)	No	No	No	No	Yes			No	oN oN	% % %	No No Yes	No No Yes	X X X X X X X X X X X X X X X X X X X	S S S K S S S	% % % % % % % % % % % % % % % % % % %	\$\frac{1}{6}\$ \frac{1}{6}\$ \fr	\$\frac{1}{2} \frac{1}{2} \frac		% % % % % % % % % % % % % % % % % % %						% % % % % % % % % % % % % % % % % % %				% % % % % % % % % % % % % % % % % % %
Assault Weapon? ^C	9)	No	No	No	No	Yes		7	No	o N	S S S	X No X	No N	No N																
Cap Mag.?b	3	No	No	Yes	No	Yes	Yes	N N	3	S oN	S o o	No No Y	S o N N N N N N N N N N N N N N N N N N	S	S	3 ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° °	3 0 0 8 8 0 8 0 8 8 0 8 8 0 8 8 8 0 8	2	3 0 0 8 8 0 8 0 0 0 0 0 0 0 0 0 0 0 0 0	3. °° °° °° °° °° °° °° °° °° °° °° °° °°		No		S	No N	3. 0 0 0 8 8 0 8 0 0 8 0 0 0 0 0 0 0 0 0	S	S	3. 0 0 0 8 8 0 0 8 0 0 0 0 0 0 0 0 0 0 0	N N N N N N N N N N N N N N N N N N N
Source	(4)	MJ/CC	MJ/CC	MJ/CC	MJ/CC	MJ/CC	MJ/CC	MI/CC)	MJ/CC	MJ/CC MJ/CC	MJ/CC MJ/CC MJ/CC	MJ/CC MJ/CC MJ/CC MJ/CC	MJ/CC MJ/CC MJ/CC MJ/CC MJ/CC MJ/CC	MJ/CC MJ/CC MJ/CC MJ/CC MJ/CC MJ/CC															
Date	(3)	3/29/2009	6/25/2008	2/14/2008	2/7/2008	12/5/2007	10/7/2007	7/16/2007	100707	2/12/2007	2/12/2007 2/12/2007 10/2/2006	2/12/2007 2/12/2007 10/2/2006 3/25/2006	2/12/2007 2/12/2006 10/2/2006 3/25/2006 1/30/2006	2/12/2007 2/12/2007 10/2/2006 3/25/2006 1/30/2006 3/21/2005	2/12/2007 2/12/2006 1/2/2006 3/25/2006 1/30/2006 3/21/2005 3/12/2005	2/12/2007 2/12/2007 10/2/2006 3/25/2006 1/30/2006 3/12/2005 12/8/2004	2/12/2007 2/12/2007 10/2/2006 3/25/2006 1/30/2006 3/21/2005 3/12/2005 12/8/2004	2/12/2007 2/12/2006 1/30/2006 3/25/2006 1/30/2006 3/12/2005 12/8/2004 11/21/2004 8/27/2003	2/12/2007 2/12/2007 10/2/2006 3/25/2006 1/30/2006 3/12/2005 12/8/2004 11/21/2004 8/27/2003 7/8/2003	2/12/2007 2/12/2006 10/2/2006 3/25/2006 1/30/2006 3/12/2005 12/8/2004 11/21/2004 8/27/2003 2/5/2001	2/12/2007 2/12/2006 3/25/2006 3/25/2006 1/30/2005 3/12/2005 12/8/2004 11/21/2004 8/27/2003 7/8/2003 12/26/2001	2/12/2007 2/12/2007 10/2/2006 3/25/2006 1/30/2005 3/12/2005 11/21/2004 8/27/2003 7/8/2003 12/5/2001 12/26/2000	2/12/2007 2/12/2006 10/2/2006 3/25/2006 1/30/2005 3/12/2005 11/21/2004 8/27/2003 7/8/2003 2/5/2001 12/30/1999 11/2/1999	2/12/2007 10/2/2006 3/25/2006 1/30/2006 3/21/2005 3/12/2005 11/21/2004 8/27/2003 7/8/2003 2/5/2001 12/30/1999 11/2/1999	2/12/2007 2/12/2006 3/25/2006 3/25/2006 1/30/2005 3/12/2005 11/21/2004 8/27/2003 7/8/2003 2/5/2001 12/26/2000 12/30/1999 9/15/1999	2/12/2007 10/2/2006 3/25/2006 1/30/2006 3/21/2005 3/12/2005 11/21/2004 8/27/2003 2/5/2001 12/30/1999 9/15/1999 9/15/1999	2/12/2007 10/2/2006 3/25/2006 1/30/2006 3/21/2005 3/12/2005 11/21/2004 11/21/2003 2/5/2001 12/30/1999 9/15/1999 4/20/1999 5/21/1998	2/12/2007 2/12/2006 3/25/2006 3/25/2006 1/30/2005 3/12/2005 11/21/2004 8/27/2003 7/8/2000 12/30/1999 9/15/1999 4/20/1999 5/21/1998	2/12/2007 10/2/2006 3/25/2006 1/30/2006 3/21/2005 3/12/2005 11/21/2004 11/21/2003 2/5/2001 12/30/1999 9/15/1999 9/15/1999 3/24/1998 3/24/1998	2/12/2007 10/2/2006 3/25/2006 1/30/2006 3/21/2005 3/12/2005 11/21/2004 11/21/2003 2/5/2001 12/30/1999 9/15/1999 9/15/1999 3/24/1998 3/24/1998 3/24/1998
Location	(2)	Carthage, NC	Henderson, KY	DeKalb, IL	Kirkwood, MO	Omaha, NE	Crandon, WI		Blacksburg, VA	Blacksburg, VA Salt Lake City, UT	Blacksburg, VA Salt Lake City, UT Lancaster County, PA	Biacksburg, VA Salt Lake City, UT Lancaster County, PA Seattle, WA	Blacksburg, VA Salt Lake City, UT Lancaster County, PA Seattle, WA Golera, CA	Biacksburg, VA Salt Lake City, UT Lancaster County, PA Seattle, WA Goleta, CA Red Lake, MN	Biacksburg, VA Salt Lake City, UT Lancaster County, PA Seattle, WA Goleta, CA Red Lake, MN Brookfield, WI	Blacksburg, VA Salt Lake City, UT Lancaster County, PA Seattle, WA Goleta, CA Red Lake, MN Brookfield, WI Columbus, OH	Biacksburg, VA Salt Lake City, UT Lancaster County, PA Seattle, WA Goleta, CA Red Lake, MN Brookfield, WI Columbus, OH Meteor, WI	Biacksburg, VA Salt Lake City, UT Lancaster County, PA Seattle, WA Goleta, CA Red Lake, MN Brookfield, WI Columbus, OH Metcor, WI Chicago, IL	Biacksburg, VA Salt Lake City, UT Lancaster County, PA Seattle, WA Goleta, CA Red Lake, MN Brookfield, WI Columbus, OH Meteor, WI Chicago, IL Meridian, MS	Biacksburg, VA Salt Lake City, UT Lancaster County, PA Seattle, WA Goleta, CA Red Lake, MN Brookfield, WI Columbus, OH Metcor, WI Chicago, IL Meridian, MS Meridian, MS	Biacksburg, VA Salt Lake City, UT Lancaster County, PA Seattle, WA Goleta, CA Red Lake, MN Brookfield, WI Columbus, OH Meteor, WI Chicago, IL Meridian, MS Melrose Park, IL Wakefield, MA	Biacksburg, VA Salt Lake City, UT Lancaster County, PA Seattle, WA Goleta, CA Brookfield, WI Columbus, OH Meteor, WI Chicago, IL Meridian, MS Merirose Park, IL Wakefield, MA Tampa, FL	Biacksburg, VA Salt Lake City, UT Lancaster County, PA Seattle, WA Goleta, CA Brookfield, WI Columbus, OH Meteor, WI Chicago, IL Meridian, MS Meridian, MS Melrose Park, IL Wakefield, MA Tampa, FL Honolulu, HI	Biacksburg, VA Salt Lake City, UT Lancaster County, PA Seattle, WA Goleta, CA Brookfield, WI Columbus, OH Meteor, WI Chicago, IL Meridian, MS Melrose Park, IL Wakefield, MA Tampa, FL Honolulu, HI Fort Worth, TX	Blacksburg, VA Salt Lake City, UT Lancaster County, PA Seattle, WA Goleta, CA Brookfield, WI Columbus, OH Meteor, WI Chicago, IL Meridian, MS Melrose Park, IL Wakefield, MA Tampa, FL Honolulu, HI Fort Worth, TX Atlanta, GA	Biacksburg, VA Salt Lake City, UT Lancaster County, PA Seattle, WA Goleta, CA Red Lake, MN Brookfield, WI Columbus, OH Meteor, WI Chicago, IL Meridian, MS Meridian, MS Helrose Park, IL Wakefield, MA Tampa, FL Honolulu, HI Fort Worth, TX Atlanta, GA	Biacksburg, VA Salt Lake City, UT Lancaster County, PA Seattle, WA Goleta, CA Red Lake, MN Brookfield, WI Columbus, OH Meteor, WI Chicago, IL Meriose Park, IL Wakefield, MA Tampa, FL Honolulu, HI Fort Worth, TX Atlanta, GA Littleton, CO Springfield, OR	Biacksburg, VA Salt Lake City, UT Lancaster County, PA Seattle, WA Goleta, CA Red Lake, MN Brookfield, WI Columbus, OH Meteor, WI Chicago, IL Meridian, MS Meridian, MS Melrose Park, IL Wakefield, MA Tampa, FL Honolulu, HI Fort Worth, TX Atlanta, GA Littleton, CO Springfield, OR Jonesboro, AR	Biacksburg, VA Salt Lake City, UT Lancaster County, PA Seattle, WA Goleta, CA Brookfield, WI Columbus, OH Meteor, WI Chicago, IL Meridian, MS Meridian, MS Meridian, MS Atlanta, FL Honolulu, HI Fort Worth, TX Atlanta, GA Littleton, CO Springfield, OR Jonesboro, AR Newington, CT	Biacksburg, VA Salt Lake City, UT Lancaster County, PA Seattle, WA Goleta, CA Red Lake, MN Brookfield, WI Columbus, OH Metcor, WI Chicago, IL Meridian, MS Meridian, MS Meridian, HI Fort Worth, TX Atlanta, GA Littleton, CO Springfield, OR Jonesboro, AR Ionesboro, AR Newington, CT Orange, CA
Case	(1)	g Home		University	Council										of God	ow ow	ow God	ow ow rehouse	ow rehouse	ow rehouse	rf God ow rehouse n	ow rehouse	ow ow rehouse	ow cehouse	ow ehouse n	ow rehouse n tist Church ding	ow ow rehouse n tist Church ding school	ow rehouse n tist Church ding n School sehool	or rehouse n tist Church ding school school e School	rf God ow rehouse n tist Church ding school school tery tery
Ü)	Carthage Nursing Home	Atlantis Plastics	Northern Illinois University	Kirkwood City Council	Westroads Mall	Crandon	Virginia Tech	The same	Trolley Square	Trolley Square Amish School	Trolley Square Amish School Capitol Hill	Trolley Square Amish School Capitol Hill Goleta Postal	Trolley Square Amish School Capitol Hill Goleta Postal	Trolley Square Amish School Capitol Hill Goleta Postal Red Lake Living Church c	Trolley Square Amish School Capitol Hill Goleta Postal Red Lake Living Church o	Trolley Square Amish School Capitol Hill Goleta Postal Red Lake Living Church c Damageplan Shr	Trolley Square Amish School Capitol Hill Goleta Postal Red Lake Living Church c Damageplan Sh Hunting Camp	Trolley Square Amish School Capitol Hill Goleta Postal Red Lake Living Church o Damageplan Sh Windy City Wai	Trolley Square Amish School Capitol Hill Goleta Postal Living Church o Damageplan Shr Hunting Camp Windy City Wat	Trolley Square Amish School Capitol Hill Goleta Postal Red Lake Living Church o Damageplan Sh Hunting Camp Windy City Wa Lockheed Martii	Trolley Square Amish School Capitol Hill Goleta Postal Red Lake Living Church o Damageplan Sh Hunting Camp Windy City Wai Lockheed Martii	Trolley Square Amish School Capitol Hill Goleta Postal Red Lake Living Church o Damageplan Shr Hunting Camp Windy City War Lockheed Martii Navistar Wakefield Hotel	Trolley Square Amish School Capitol Hill Goleta Postal Red Lake Living Church o Damageplan Sh Hunting Camp Windy City Wai Lockheed Martii Navistar Wakefield Hotel Xerox Wedgwood Bap	Trolley Square Amish School Capitol Hill Goleta Postal Red Lake Living Church of God Damageplan Show Hunting Camp Windy City Warehouse Lockheed Martin Navistar Wakefield Hotel Xerox Wedgwood Baptist Church Atlanta Day Trading	Trolley Square Amish School Capitol Hill Goleta Postal Red Lake Living Church of God Damageplan Show Hunting Camp Windy City Warehouse Lockheed Martin Navistar Wakefield Hotel Xerox Wedgwood Baptist Chur Atlanta Day Trading Columbine High School	Trolley Square Amish School Capitol Hill Goleta Postal Red Lake Living Church of God Damageplan Show Hunting Camp Windy City Warehous. Lockheed Martin Navistar Wakefield Hotel Xerox Wedgwood Baptist Ch Atlanta Day Trading Columbine High School Thurston High School	Trolley Square Amish School Capitol Hill Goleta Postal Red Lake Living Church of God Damageplan Show Hunting Camp Windy City Warehouse Lockheed Martin Navistar Wakefield Hotel Xerox Wedgwood Baptist Chur Atlanta Day Trading Columbine High School Thurston High School Westside Middle School	Trolley Square Amish School Capitol Hill Goleta Postal Red Lake Living Church of G Damageplan Show Hunting Camp Windy City Warcho Lockheed Martin Navistar Wakefield Hotel Xerox Wedgwood Baptist Atlanta Day Trading Columbine High Sch Thurston High Sch Westside Middle Sc	Trolley Square Amish School Capitol Hill Goleta Postal Red Lake Living Church of God Damageplan Show Hunting Camp Windy City Warchouse Lockheed Martin Navistar Wakefield Hotel Xerox Wedgwood Baptist Church Atlanta Day Trading Columbine High School Thurston High School Westside Middle School Comecticut Lottery Caltrans Maintenance Yard

85.

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				Large			Fatalities	Injuries	Total		Gun(s)	Offenders'
Case	Location	Date	Source	Cap Mag.?b	Assault Weapon? ^C	Assault Rifle?c	Excluding Shooterd	Excluding Shooter d	Fatalities & Injuries d	Shots Fired	Obtained Legally? e	Number of Guns
(1)	(2)	(3)	(4)	(5)	(9)	(7)	(8)	(6)	(10)	(11)	(12)	(13)
88. Fort Lauderdale	Fort Lauderdale, FL	2/9/1996	MJ/CC	No	No	No	\$	1	9	14 W	Yes	2
89. Piper Technical Center	Los Angeles, CA	7/19/1995	CC	Yes	No	No	4	0	4			
90. Walter Rossler Company	Corpus Christi, TX	4/3/1995	MJ/CC	No	No	No	S	0	5		Yes	2
Air Force Base	Fairchild Base, WA	6/20/1994	MJ/CC	Yes	Yes	Yes	4	23	27	20 x	Yes	1
92. Chuck E. Cheese	Aurora, CO	12/14/1993	MJ/CC	No	No	No	4	1	5			1
93. Long Island Railroad	Garden City, NY	12/7/1993	MJ/CC	Yes	No	No	9	19	25	30	Yes	1
94. Luigi's Restaurant	Fayetteville, NC	8/6/1993	MJ/CC	No	No	No	4	&	12		Yes	3
95. 101 California Street	San Francisco, CA	7/1/1993	MJ/CC	Yes	Yes	No	∞	9	14	75	No	3
96. Watkins Glen	Watkins Glen, NY	10/15/1992	MJ/CC	No	No	No	4	0	4		Yes	1
97. Lindhurst High School	Olivehurst, CA	5/1/1992	MJ/CC	No	No	No	4	10	14	•	Yes	2
98. Royal Oak Postal	Royal Oak, MI	11/14/1991	MJ/CC	Yes	No	No	4	4	8		Yes	1
99. University of Iowa	Iowa City, IA	11/1/1991	MJ/CC	No	No	No	5	-	9		Yes	1
100. Luby's Cafeteria	Killeen, TX	10/16/1991	MJ/CC	Yes	No	No	23	20	43	100	Yes	2
	Jacksonville, FL	6/18/1990	MJ/CC	Yes	No	No	6	4	13	14	Yes	2
102. Standard Gravure Corporation	Louisville, KY	9/14/1989	MJ/CC	Yes	Yes	Yes	∞	12	20	21	Yes	S
103. Stockton Schoolyard	Stockton, CA	1/17/1989	MJ/CC	Yes	Yes	Yes	S	29	34	106	Yes	2
	Sunnyvale, CA	2/16/1988	MJ/CC	No	No	No	7	4	111		Yes	7
105. Shopping Centers	Palm Bay, FL	4/23/1987	MJ/CC	Yes	No	No	9	14	20	40 y	Yes	8
106. United States Postal Service	Edmond, OK	8/20/1986	MJ/CC	No		No	14	9	20	1	Yes	8
107. San Ysidro McDonald's	San Ysidro, CA	7/18/1984	MJ/CC	Yes	Yes	Yes	21	19	40	257	Yes	3
108. Dallas Nightclub	Dallas, TX	6/29/1984	MJ/CC	Yes	No	No	9	1	7		No	1
109. Welding Shop	Miami, FL	8/20/1982	MJ	No	No	No	∞	3	111		Yes	1
						•						

170.1	45.5	108.0	25.4
39.0	11.5	26.6	9.2
27.8	5.1	16.9	3.4
11.2	6.4	9.6	5.9
Assault Weapon Average	Non-Assault Weapon Average	Large-Capacity Magazine Average	Non-Large Capacity Magazine Average

O 1: 1: 1: 1: L 3 - C

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Combined Public Mass Shootings Data 1982 - September 2018

Offenders' Number of Guns	(13)
Gun(s) Obtained Legally? ^e	(12)
Shots Fired	(11)
Total Fatalities & Injuries ^d	(10)
Injuries Excluding Shooter ^d	(6)
Fatalities Excluding Shooterd	(8)
Assault Rifle?c	(7)
Assault Weapon? ^C	
Large Cap Mag.? ^b	(5)
Source	(4)
Date	(3)
Location	(2)
Case	(1)

Notes and Sources:

Public Mass Shootings from Mother Jones ("US Mass Shootings, 1982-2018: Data from Mother Jones Investigation," accessed September 25, 2018) and the Citizens Crime Commission of New York City ("Mayhem Multiplied:

Mass Shooters and Assault Weapons, "2018, and "Citizens Crime Commission of New York City, Mass Shooting Incidents in America (1984-2012)," accessed June 1, 2017). MJ indicates a mass shooting identified by Mother

Jones. CC indicates a mass shooting identified by Citizens Crime Commission of New York City data. Except where noted, all data on shots fired obtained from CC.

a Casualty figures exclude the shooter. LCM classification and casualties updated based on review of stories from Factiva/Google searches. Assault weapon classification updated for news released in November 2018 re

incident #7, Yountville Veterans Home

b Large capacity magazines are those with a capacity to hold more than 10 rounds of ammunition. Stories from Factiva and Google searches reviewed to determine whether an LCM was involved.

c See Appendix C for details.

d Offender(s) are not included in counts of fatalities and injuries. Stories from Factiva and Google searches reviewed to determine number of fatalities and injuries.

e The determination of whether guns were obtained legally is based on Mother Jones reporting. f Number of guns from: "Suspect in quadruple killing at car wash dies," CNN, January 30, 2018.

^g Shots fired from: "California gunman fired 30 rounds at elementary school, left when he couldn't get inside," ABC News, November 15, 2017.

h Shots fired from: "Be quiet! It's him!" Survivors say shooter walked pew by pew looking for people to shoot," CNN, November 9, 2017.

i Shots fired from: "Three dead after 'around 30' shots fired at Walmart supermarket in Thornton," Evening Standard, November 2, 2017.

^J Shots fired from: "Sheriff Says More than 1,100 Rounds Fired in Las Vegas," Las Vegas Review Journal, November 22, 2017

K Shots fired from: "Killer in Supermarket Shooting Posted Chilling Videos Online, Lauding Columbine Massacre," Washington Post, June 9, 2017.

Shots fired from: "Hate Crime is Suspected After Gunman Kills 3 White Men in Downtown Fresno," Los Angeles Times, April 19, 2017.

m Shots fired from: "Fort Lauderdale Shooting Suspect Appears in Court, Ordered Held Without Bond," Washington Post, January 9, 2017.

ⁿ Shots fired from: "Baton Rouge Cop Killer Left Note, Fired At Least 43 Rounds," CNN, July 9, 2017.

O Shots fired from: ""We Thought It Was Part of the Music': How the Pulse Nightclub Massacre Unfolded in Orlando," The Telegraph, June 13, 2016.

P Shots fired from: "San Bernardino Suspects Left Trail of Clues, but No Clear Motive," New York Times, December 3, 2015.

^q Shots fired from: "Sheriff: Elliot Rodger Fired 50-plus Times in Isle Vista Rampage," Los Angeles Times, June 4, 2014.

^T Shots fired from: "Shooter Set \$10,000 on Fire in Hialeah Shooting Rampage," NBC News , July 28, 2013.

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Combined Public Mass Shootings Data 1982 - September 2018

Offenders' Number of Guns	(13)
Gun(s) Obtained Legally? e	(12)
Shots Fired	(11)
Total Fatalities & Injuries ^d	(10)
Injuries Excluding Shooter d	6)
Fatalities Excluding Shooterd	(8)
Assault Rifle?c	(7)
Assault Weapon?c	(9)
Large Cap Mag.? ^b	(5)
Source	(4)
Date	(3)
Location	(2)
Case	(1)

^S Shots fired from: "Police Call Santa Monica Gunman 'Ready for Battle," New York Times, June 8, 2013.

^y Shots fired from: "6 Dead in Florida Sniper Siege; Police Seize Suspect in Massacre," Chicago Tribune, April 25, 1987.

^t Shots fired from: "Hialeah Gunman's Rage Over Estranged Wife Leaved 5 Dead," Sun-Sentinel, June 7, 2010.

^U Shots fired from: "Small Town Grieves for 6, and the Killer," Los Angeles Times, October 9, 2007.

V Shots fired from: "National Briefing | Midwest. Ohio: Shooter At Club May Have Reloaded," New York Times, January 15, 2005.

W. Shots fired from: "5 Beach Workers in Florida are Slain by Ex-Colleague," New York Times, February 10, 1996.

X Shots fired from: "Man Bent On Revenge Kills 4, Hurts 23 -- Psychiatrist Is First Slain In Rampage At Fairchild Air Force Base," The Seattle Times, June 21, 1994.

Exhibit 7

THE UNITED STATES DISTRICT COURT FOR THE CENTRAL DISTRICT OF CALIFORNIA

RUPP, et al.,

8:17-cv-00746-JLS-JDE

Plaintiffs,

REBUTTAL REPORT OF JOHN J. DONOHUE

v.

XAVIER BECERRA, in his official capacity as Attorney General of the State of California; et al.,

Defendants.

- 1. I have been asked to review the report of William E. English submitted by the plaintiffs in this case, which I find to be misguided in a number of respects.
- 2. One of the many flaws in English's report is revealed in his very first sentence, which states that he will look at "ownership and use rate by the law-abiding American public." In fact, he has no information whatsoever on the lawfulness or criminality of anyone and simply assumes without any basis that every AR-15 he counts is held by a law-abiding citizen. Of course, the criminal attraction to AR-15s cannot be ignored, so his estimates (even if his numbers were accurate, which they are not) do not support his conclusions.
- 3. Moreover, the catchphrase "law-abiding citizen" is not meaningful in the context of addressing the mass shooting problem in California, which is a core rationale for the restriction on assault weapons at issue in this case. If California could eliminate mass shootings by those who plaintiffs consider to be "law-abiding citizens," but who ultimately commit mass

shootings, the state would dramatically reduce the death toll from this serious and growing public concern. Just as a reminder, the recent shooting at a bar that killed 12 people in Thousand Oaks, California on Nov. 7, the San Bernardino shooting that left 14 dead in 2015, and the Santa Monica shooting that killed 5 in 2013 were all committed by citizens who were "law-abiding" – until the massacres started. In fact, the three most widely reported active-shooter events of this month from a synagogue in Pennsylvania (11 dead, five injured) to a yoga studio in Florida (two dead, five injured) to the bar in Southern California, all were committed by "law-abiding citizens," in English's lexicon, as were the two deadliest mass shooters in U.S. history (the Las Vegas gunmen who killed 58 and injured hundreds in 2017 and the Orlando Pulse Nightclub shooter who killed 49 and injured 53 in 2016).¹

- 4. English's apparent goal of asserting that assault weapons "are commonly owned and used by millions of law-abiding Americans for a variety of lawful purposes" is also misguided because it is not plausibly maintained that AR-15s are commonly owned and used for self-defense in the home. Indeed, while the *Heller* decision stated that "[t]he American people consider the handgun to be the quintessential self-defense weapon" for use in the home, the AR-15 was developed for battlefield use and is particularly ill-suited for home defense.
- 5. In fact, the entire focus of English's report that there are lots of assault weapons in circulation in the United States is misconceived. If assault weapons are contributing to the rising problem of mass shootings in the United States,² the fact that they are more rather than less

¹ Indeed, there are many other individuals who in English's definition were "law-abiding citizens" yet went on to commit mass murder with assault weapons: obviously, school shooters Adam Lanza who killed 26 at Sandy Hook School in 2012 and Nicholas Cruz who killed 17 and injured 17 others at a Parkland, Florida High School earlier this year are two horrific examples.

² The FBI recently reported that the 30 active shooter incidents in 2017 set a U.S. record for both the highest number and the greatest number killed and wounded. See, https://www.fbi.gov/about/partnerships/office-of-partner-engagement/active-shooter-incidents-graphics.

common is a source of a bigger problem rather than an indication that the problem is beyond legislative redress.

- 6. The bulk of English's report is engaged in an exercise apparently designed to approximate the number of assault weapons that would be restricted under the AWCA but are in circulation in the United States whether (as noted above) in the hands of active criminals, convicted felons, other banned firearm possessors, those who will eventually (or are actively plotting to) commit crimes in the future, and all others. But this effort fails entirely for an array of reasons.
- 7. First, English counts AR-15 style rifles as assault weapons whether they are rimfire rifles (and thus not prohibited under California law) or centerfire rifles (which may be restricted). Thus, English's focus on modern sporting rifles includes many weapons that are simply not restricted under the AWCA. Similarly, English includes in his counts AR-15 style rifles that are either featureless or equipped with fixed magazines. In neither case would these weapons be considered assault weapons under California law.
- 8. English relies on a series of surveys by the National Shooting Sports Foundation (NSSF) in making his claims, but there are strong reasons for concern about this reliance. The NSSF is a trade association that has a strong interest in influencing gun litigation, so before one would rely on such evidence one would need a great deal of detail concerning the nature of these surveys. The NSSF surveys appear to have surveyed only hunters and target shooters, owners of "modern sporting rifles," or firearms retailers.³ These surveys naturally reflect selection-bias and are unreliable as an indicator of the prevalence of AR-15 style rifles or the uses for the AR-15 style rifles by the general public, much less for assault weapons. English also provides no

³ I have not had an opportunity to the review the NSSF reports that English relies on. My understanding is that, as of the date of this report, Plaintiffs have not provided a copy of those reports to Defendant.

evidence regarding these or other surveys he purports to rely on. We don't know if these are random surveys or some other less reliable type of surveys, at what venue the surveys were conducted or under what circumstances. Are the surveys conducted similarly over time? It is claimed that these are surveys of hunters and shooters, but English gives us no accurate indication of the number of hunters and shooters there are in the U.S. It is highly unlikely that the views of these populations would reflect the views of Americans at large.

- 9. English does cite to an article discussing these surveys, which claims that over the five-year period from 2010 to 2015 "the actual use of the AR15 platform for hunting has gone down 6%." We know that there are long term declines in the population of hunters in the United States, so claims about increases in the percentage of "hunters and shooters" with AR-15s tell us very little about prevalence of such weapons without knowing whether the base population is declining.
- 10. Looking more closely at the figures that English presents only serves to heighten concerns. For example, English provides some confusing numbers for hunters and target shooters in his report that are hard to interpret. It is possible that he is suggesting that there are roughly 50 million hunters and target shooters. He tells us that the percentage of this group with assault weapons was less than 20 percent in 2010 but that by 2015 the percentage rose to 50 percent in itself a highly implausible increase. In other words, English's numbers would suggest there was an increase of 15 million assault weapons (from 10 million to 25 million) in five years for just hunters and shooters. But a 15 million increase in these five years dwarfs the 4.6 million figure that English claims were produced over the entire period from 2004-2013. In

⁴ English cites the following: "NSSF Survey Shows Growing Approval of AR15 Use for Hunting" September 23, 2015, http://ar15hunter.com/nssf-survey-shows-growing-approval-of-ar15-use-for-hunting/.

⁵ At one point he says 49.4 million participated in any target shooting or shooting sports in 2016. If this figure is supposed to include hunters, these numbers make even less sense.

other words. English is relying on numbers of uncertain provenance, which are both highly implausible and inconsistent with each other. He neither acknowledges nor accounts for these implausible and inconsistent numbers, which leads to his conclusions being unreliable and invalid.

- 11. While English tries to estimate how many assault weapons are in civilian hands by starting with an estimate of how many of these weapons are manufactured in the United States and then reducing that number by various outflows, such as sales to law enforcement or exports to foreign countries, many of his numbers are very wide of the mark.
- 12. For example, English inflates his estimate of the number of assault weapons by considerably understating the number of law enforcement officers. English tells us that there are 422,869 full-time law enforcement officers in the United States. But this is certainly a substantial undercount. An August 2018 Bureau of Justice Statistics (BJS) publication, entitled "Full-Time Employees in Law Enforcement Agencies, 1997-2016," indicates there were 701,169 sworn officers in the United States in 2016, excluding federal law enforcement agency employees and thus only covering state and local law enforcement. If we add in the 120,000 federal law enforcement officers from the 2008 census of Federal Law Enforcement Officers by the BJS, the latest report publicly available, this suggests that there are approximately 821,169 sworn officers in the United States – almost double the number that English provides.
- 13. As another example, English posits that only a small number of AR-15s are exported out of the United States each year, suggesting the annual number is about 8,750. However, a vastly higher number of U.S.-manufactured firearms are exported (whether legally or

https://www.bjs.gov/content/pub/pdf/ftelea9716.pdf.
 June 2012 BJS report, "Federal Law Enforcement Officers, 2008," https://www.bjs.gov/content/pub/pdf/fleo08.pdf.

illegally) each year. To see this, let us look at only one country receiving U.S. guns: Mexico. The Buearu of Alcohol, Tobacco, Firearms and Explosives (BATF) traces rifles seized in Mexico to determine if they come from the United States, and it finds that 12,000 guns fall into this category each year. There are likely many more guns that originated from the United States that have not been seized or successfully traced back to the United States. If assault weapons are as common in rifle sales as English suggests, it would not be surprising that the number of assault rifles moving from the United States to Mexico could exceed the estimated number of all assault weapons that English claims are exported from the United States. When one adds in all the other countries in the world to which American guns flow, it becomes obvious that exports of assault weapons from the United States must be vastly higher than English's paltry figure and that his estimate of domestic AR-15s must be much lower.

14. While English concedes that it is difficult to estimate the number of assault weapons in this country, he relies heavily on a paper by Nick Clossman and Chris Long entitled "A Business Case Analysis of the M4/AR-15 Market," which attempts to do just that. While English refers to this as a "published" paper, it is in reality a student paper that has not been published in a peer-reviewed (or in fact any) journal. As with the English report, the Clossman and Long paper has some puzzling elements. For example, Clossman and Long estimated that only 24,000 M4 rifles were manufactured for the entire U.S. military in 2013. They derived this number by looking only at the number of M4 carbines Congress procured for the Army by the DOD in that year. (Clossman and Long at 25-26.) But given that there were a total of 1.3 million active duty military and more than 800,000 reserve forces as of September 2017, 9 the

⁸ The 2016 GAO report is "U.S. Efforts to Combat Firearms Trafficking to Mexico Have Improved, but Some Collaboration Challenges Remain."

⁹ Military Active-Duty Personnel, http://www.governing.com/gov-data/public-workforce-salaries/military-civilian-active-duty-employee-workforce-numbers-by-state.html.

24,000 figure seems to be a gross underestimation and yet Clossman and Long relied on that number for the remainder of their paper. (Clossman and Long at 26, 29-30.)

- 15. Clossman and Long concede that the BATF reports on the number of rifles manufactured for the sale in the United States do not break down the data to specify the types of rifles. (Clossman and Long at 16.) To bridge that gap, Clossman and Long, by some unidentified criteria, selected companies that "primarily manufactured M4/AR-15s." (Clossman and Long at 16.) Clossman and Long then counted all of the rifles manufactured by those companies as M4/AR-15s. (Clossman and Long at 17-18, Appx A.)¹⁰
- AR-15s *all* rifles manufactured by companies that they deemed to "primarily" make AR-15s. Clossman and Long did not count certain other large manufacturers or small manufacturers, but there seems to be no rational basis to determine how the numbers they count and those they omit might offset each other. Moreover, since Clossman and Long's estimates included both weapons manufactured for sale in the United States and for export abroad (Clossman and Long at 17) and since English has very poor export data, English's estimates of the number of AR-15s sold in the United States are far from reliable.
- 17. To give more concrete numbers based on actual California data, we know that there are approximately 166,000 assault rifles currently registered with the California DOJ, and there have only been approximately 175,000 assault rifles that have ever been registered with the California DOJ (some registered rifles become unregistered if, say, the owner died, owner became prohibited, or owner relinquished the rifle). These actual registration numbers suggest that in a state with approximately 30,840,000 residents over the age of 18, assault weapons are

¹⁰ Another over-estimation that creeps into the Clossman and Long analysis stems from the fact that their paper estimated the number of "AR-15 platform rifles," even though not all AR-15 platform rifles are assault rifles under the AWCA, as discussed above.

quite uncommon and indeed play virtually no role in the state, or indeed the entire country, in furthering self-defense within the home.¹¹

- 18. Even assuming that each of the approximately 166,000 assault rifles is owned by a separate adult individual in California, it would mean that 0.5% of Californians possess an assault rifle (166,000/30.84 million) – an ownership rate that is far from what may be considered as "common use." That ownership rate is likely even lower because, as my initial report noted, gun ownership is growing increasingly concentrated. This implies that whatever the number of assault rifles is, it is a far smaller number of households in California and in the United State that have such weapons. English confuses the number of guns with the number of owners of guns, with the latter considerably smaller than the former.
- 19. Clossman and Long looked at National Instant Criminal Background Check System (NICS) data and reported that California has the third highest demand for long-guns in the United States, behind Texas and Florida. (Clossman and Long at 31.) Clossman and Long estimated that Californians purchased over 150,000 AR-15s in 2013 alone, and 526,000 AR-15s between 2004-2013. (Clossman and Long at 33-35.) The wide discrepancy between Clossman and Long's estimated figures and the actual registration numbers demonstrates that his methodology for estimation is unreliable. 12 Therefore, his overall numbers are too flawed and inaccurate to make any claim about the prevalence of assault weapons in the state or the nation, let alone who is using them for lawful self-defense in the home.
- 20. English speaks of the AR-15 as a "fine little weapon" and one that is "easy, pleasant, and accurate to shoot." But this ignores the report from the Department of Defense

https://www.census.gov/quickfacts/ca.
English's estimates are either grossly exaggerated or indicate that the vast majority of "law abiding" assault-rifle owners in the state are in fact violating the law. He cannot have it both ways.

from which I quoted extensively in my initial affidavit in this case, which describes why this weapon was chosen for use on the battlefield: because it greatly increased the killing capacity of soldiers in combat. In other words, the very features that made this weapon attractive to the military (absent the ability to switch to automatic fire, which is not the standard military mode) now makes it the weapon of choice for many mass shooters across the country. This is what has prompted the California legislature to want to restrict civilian possession of assault weapons to reduce the harm from the growing danger of mass shooting.

21. In this regard, it is useful to look at the pattern of mass public shootings where 4 or more victims were killed over the periods 1982-2000 and 2001-2017.¹³ California has tried to address the mass shooting problem with a variety of measures ranging from assault weapons restrictions to limits on the size of magazines and restrictions on carrying weapons outside the home. Other states, such as Florida, have not pursued these measures – to their detriment. If we examine the fatality rate from these public mass shootings, California's per capita fatality rate from mass public shootings fell by 2 percent after 2000, while Florida's fatality rate increased by 50 percent over the same period. Comparing the public mass shooting fatality rate of California to Florida in the post-2000 period, the fatality rate of California is less than half of the fatality rate of Florida.¹⁴ Given the progress that California has made and is trying to build upon in

¹³ My data comes from Follman, Mark, Gavin Aronsen, and Deanna Pan. 2018. "US Mass Shootings, 1982-2018: Data From Mother Jones' Investigation." Mother Jones. https://www.motherjones.com/politics/2012/12/mass-shootings-mother-jones-full-data/ (accessed November 13, 2018). In computing the fatality rates from mass shootings in this paragraph, I also used the population data from the U.S. Census Bureau, "State Population Totals and Components of Change."

My initial affidavit in this case highlighted the problem of the enormous number of guns stolen in the United States, thereby transferring hundreds of thousands of weapons each year from "law-abiding citizens" to criminals. A vivid reminder of this troubling peril is provided by the recent theft of a \$50,000 assault weapon (with ammunition, a silencer, and a rifle bag) soon after it was purchased and left in an unlocked car by NBA Miami Heat basketball player Hassan Whiteside. Fortunately, the police were able to recover the weapon weeks later in

reducing gun violence, it would be highly imprudent to undercut the policies that have been designed to reduce the devastation from public mass shootings that burdens our state and our country.

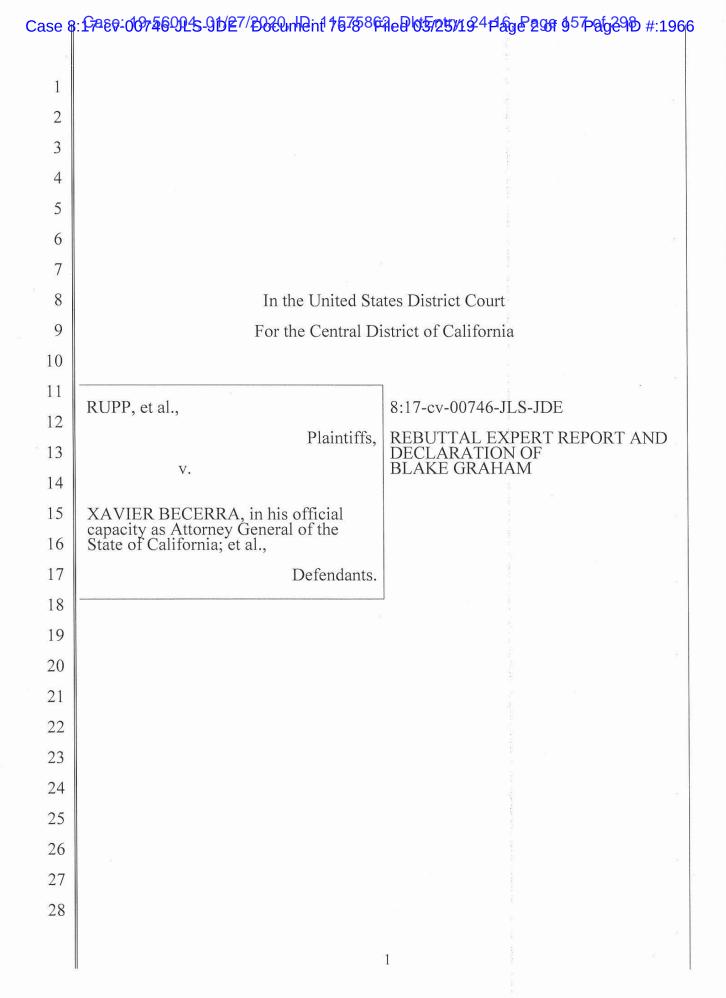
Date: November 21, 2018

John J. Donohue III

John J. Donothe II

a stolen car in North Miami. "Hassan Whiteside buys \$50K assault rifle, immediately has it stolen after leaving it in unlocked Rolls Royce," https://www.yahoo.com/news/hassan-whiteside-buys-50k-assault-rifle-immediately-stolen-leaving-unlocked-rolls-royce-020551481.html.

Exhibit 8



- I am a Special Agent Supervisor for the California Department of Justice, Bureau of Firearms.
- I have previously submitted an expert report and declaration dated October 25, 2018, which describes my background and qualifications.
- I provide this rebuttal report and declaration in response to the opinions presented in the expert reports submitted by Plaintiffs, specifically reports by J. Buford Boone III, Stephen Helsley, and William English.

DISCUSSION

RESPONSE TO REPORT BY J. BUFORD BOONE III.

- 4 I disagree with several opinions reached by Mr. Boone in his report.
- Boone opined that the AR-15 is an appropriate firearm for self-defense by civilians based an inference that the FBI "believes" the AR-15 is an appropriate firearm for defensive purposes solely because FBI Agents receive training on the use of AR-15 rifles, they are issued to some Agents, and some Agents used AR-15 rifles in the 1990's. Boone Report at p. 7. Mr. Boone's opinion is not supported by evidence. As Mr. Boone conceded, the FBI does not endorse any particular firearms. Boone Report at p. 11.
- 18. According to Mr. Boone's report, his opinion that handgun rounds underperform "regardless of circumstance" is based on a test conducted during his time with the Ballistic Research Facility (BRF) that showed a "particular 115 grain +P+ 9mm bullet," presumably fired out of an unnamed type of handgun, penetrated

approximately 11 inches in a bare tissue simulant. Boone Report at p. 6. There are several flaws with Mr. Boone's opinion in this respect.

- First, how a projectile performs when fired depends on the type of projectile and the gun it is fired from. Mr. Boone identified a specific type of bullet (115 grain +P+ 9mm) but did not address the performance or test results of other types of handgun rounds such as the 10mm or the .40, which the FBI and other law enforcement agencies use. Mr. Boone also did not identify the type of handgun from which the projectile was fired in his test. The penetration ability of a projectile depends not only on the projectile itself, but depends on a number of variables that Mr. Boone did not address. They include the barrel length of the gun from which the projectile is filed, the specific type of projectile, and the distance to the target. Therefore, it is erroneous to draw the broad conclusion that handgun rounds underperform based solely on the data relied upon by Mr. Boone.
- 8 Second, Mr. Boone explained that the BRF was created following a 1986 shootout wherein the projectiles used by FBI agents did not penetrate the target sufficiently. Boone Report at p. 3. After 1986, the FBI and other law enforcement agencies began to move away from using 9mm rounds towards larger caliber rounds such as the .40 Smith & Wesson. However, since that time, and further since Mr. Boone retired from the BRF, ballistics technology has vastly improved. Since 2007, the terminal effectiveness of projectiles has dramatically increased.

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A 2014 FBI report indicates that 9mm Luger projectiles outperform .40 S&W and .45 auto projectiles tested by the FBI, and further offers less recoil, lower cost, and higher functional reliability rates in FBI weapons. According to the report, the majority of FBI shooters are able to shoot faster and more accurately with the 9mm Luger than handgun rounds of larger caliber. The report concludes that "[w]ith modern properly designed, expanding handgun bullets," the objective of penetrating 12-18 inches, depending on the size of the individual and the angle of bullet path, "is realized." The report describes a test conducted by the BRF that concluded that, compared to the .40 S&W projectile, the "9mm provides struggling shooters the best chance of success while improving the speed and accuracy of the most skilled shooters."

Third, I note that Mr. Boone did not opine that assault weapons, as defined under the AWCA, are suitable for civilian self-defense or home defense. He opined broadly as to AR-15 rifles, which is a much broader category of firearms than weapons defined as assault rifles by the AWCA. AR-15 rifles, AR-15 platform rifles, or rifles with AR-15 lower receivers, are not necessarily assault rifles under the AWCA. These types of rifles and lower receivers may be assembled to be featureless rifles, or they may also be assembled as rimfire rifles. Rimfire rifles that contain detachable magazine and features such as the flash

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https://www.scribd.com/document/355927271/Executive-Summary-of-Justification-for-Law-Enforcement-Partners

suppressor, pistol grip, thumbhole stock, and telescoping or folding stock, are not considered to be assault weapons under the AWCA. In my belief, many AR-15 rifles in California are rimfire rifles. My belief, based on my experience and knowledge, is that most AR-15 firearms possessed in California are not assault rifles under the AWCA.

- 11 Fourth, Mr. Boone speculated that an AR-15 is more intimidating than a handgun. That is irrelevant. The 2014 FBI report states that "the psychological effects of being shot can never be counted on to stop an individual from continuing conscious voluntary action." It is intimidating to an individual for any firearm to pointed at the individual.
- 12 Fifth, Mr. Boone opined that some features such as a pistol grip may allow an AR-15 platform weapon to be used more easily by those less trained in firearms for self-defense purposes. While this may be true, those same features are what makes assault weapons attractive to potential mass shooters or criminals because they would be more likely to cause massive casualties with very little training.

RESPONSE TO REPORT BY STEPHEN HELSLEY.

13 Mr. Helsley opined that adjustable stocks have a short adjustment range of 3-4 inches that has little, if any, effect on a user's ability to conceal an AR rifle. Hesley Report at 10. Mr. Helsley's opinion is incorrect for two reasons.

- 14 First, Mr. Helsley's opinion does not apply to folding stocks, a type of adjustable stock. Folding stocks could reduce the length of a rifle by 10-12 inches.
- Is Second, contrary to Mr. Helsley's opinion, even a 3-4 inch reduction in the length of a rifle would make the rifle easier to conceal. As I discussed in my initial report, a weapon with a shorter overall length could permit a shooter to smuggle the weapon undetected in a bag or backpack, to hide in the crowd without telegraphing the shooter's location, or to conceal the weapon underneath loose or bulky clothing. Graham Initial Report at ¶ 21. As I also noted in my report, some manufacturers design and market backpacks specifically to carry assault rifles with folding or telescoping stock. Graham Initial Report at ¶ 21, fn. 3.
- Mr. Helsley's opinion addressed semiautomatic, centerfire rifles with detachable magazines—these, however, are not necessarily assault weapons under the AWCA.
- Mr. Helsley stated on page 11 of his report that "[s]emiautomatic, centerfire rifles with detachable magazines have been in safe and effective use by civilians in this country for over a century." Mr. Hesley did not specify whether the rifles he reference are assault weapons under the AWCA (since he could be opining on featureless rifles). To the extent he was referencing assault weapons under the AWCA, I disagree with his opinion. As I noted in my initial report, I am familiar with the use of assault weapons by subjects intending to do harm to civilians and law enforcement. Graham Initial Report at ¶ 35. Assault weapons have been a

popular weapon used in mass shootings in California and elsewhere. Graham Initial Report at ¶ 35. My initial report specifically identified 13 examples of mass shootings committed by shooters who used assault weapons. Graham Initial Report at ¶ 40. So assault weapons have not been used safely in at least those instances, but they were, unfortunately, used effectively by the mass shooters.

RESPONSE TO REPORT BY WILLIAM ENGLISH.

In his report, Mr. English estimated that there are around 15 million AR style rifles in circulation by the end of 2018. English Report at p. 6. Mr. English based his estimate on a report by Clossman and Long, which itself estimated that approximately 4.6 million AR-15s were manufactured in the U.S. between 2004 and 2013. English Report at p. 5.

I note that not all AR-15 rifles or AR platform rifles or AR lower receivers are assault rifles under the AWCA. AR platform rifles compromise a much larger category of firearms than assault weapons under the AWCA. AR platform rifles may be featureless or may be rimfire rifles or may have a fixed magazine with less than a 10 round capacity. Any of these AR rifles would generally not be an assault weapon under the AWCA.² And AR lower receiver may be assembled into an assault rifle, or not. As Mr. Helsley acknowledged in his report, an AR platform rifle is highly configurable. Helsley Report at p. 11. Mr.

² There may be certain assault weapons identified in Penal Code section 30510 that are rimfire rifles or have fixed magazines. These, however, are extremely rare and I have yet to encounter one in my career.

Case 8: 17/260-0107/2600145-911/27/2020unleint 76/258 File Plots/25/1944 Age 9997 964-26/2900 #:1978

Exhibit 9

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              FOR THE CENTRAL DISTRICT OF CALIFORNIA
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     RUPP, et al.,
                                  )
 5
               Plaintiffs,
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                             )Case No.:
               vs.
 7
     XAVIER BECERRA, in his )8:17-cv-00746-JLS-JDE
     official capacity as Attorney)
 8
     General of the State of
 9
     California; et al.,
10
11
              Defendants.
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16
            VIDEOTAPED DEPOSITION OF JOHN J. DONOHUE
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                    San Francisco, California
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                    Thursday, December 6, 2018
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                             Volume 1
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     Reported by:
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     RACHEL FERRIER, CSR No. 6948
24
     Job No. 3135713
     PAGES 1 - 244
25
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Case 49.19: 42.000, 464 J 25/47/2012 490 60 imleh 7/58/62, Filet 105/25/19/6 Pages 16728 49/69 ID #1976

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                 THE UNITED STATES DISTRICT COURT
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              FOR THE CENTRAL DISTRICT OF CALIFORNIA
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     RUPP, et al.,
                                   )
 5
               Plaintiffs,
                                   )
6
                                   )Case No.:
               vs.
 7
     XAVIER BECERRA, in his )8:17-cv-00746-JLS-JDE
     official capacity as Attorney)
8
9
     General of the State of
                                   )
10
     California; et al.,
11
               Defendants.
                                   )
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            VIDEOTAPED DEPOSITION OF JOHN J. DONOHUE,
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     VOLUME 1, taken on behalf of the Plaintiffs, at
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     Office of the Attorney General, 455 Golden Gate Avenue,
     Site 11000, San Francisco, California, beginning at
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     10:12 a.m. and ending at 6:23 p.m. on Thursday,
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     December 6, 2018, before RACHEL FERRIER, Certified
22
     Shorthand Reporter No. 6948.
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1	APPEARANCES:
2	
3	For Plaintiffs:
4	MICHEL & ASSOCIATES, PC
5	BY: SEAN A. BRADY
6	Attorney at Law
7	80 E. Ocean Blvd., Suite 200
8	Long Beach, CA 90802
9	562.216.4464
10	SBrady@michellawyers.com
11	
12	For Defendants:
13	DEPARTMENT OF JUSTICE
14	OFFICE OF THE ATTORNEY GENERAL
15	BY: PETER H. CHANG
16	Deputy Attorney General
17	
	455 Golden Gate Avenue, Suite 11000
18	San Francisco, CA 94102-7020
19	415.510.3776
20	peter.chang@doj.ca.gov
21	
22	Videographer:
23	VISUAL DISCOVERY
2 4	
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1	I'm not authorized to administer an oath. I'm	10:13:00
2	not related to any party in this action, nor am I	10:13:02
3	financially interested in the outcome.	10:13:05
4	Counsel and all present in the room and everyone	10:13:07
5	attending remotely will now state their appearances and	10:13:10
6	affiliations for the record, beginning with the	10:13:15
7	questioning attorney.	10:13:16
8	MR. BRADY: Sean Brady for Plaintiffs.	10:13:17
9	MR. CHANG: Peter Chang, Department of Justice	10:13:18
10	for Defendant Xavier Becerra.	10:13:23
11	THE VIDEOGRAPHER: If there are any objections to	10:13:26
12	proceeding, please state them at the time of your	10:13:28
13	appearance, beginning excuse me.	10:13:30
14	Will the Court Reporter please swear in the	10:13:32
15	witness.	10:13:33
16	JOHN J. DONOHUE,	10:13:33
17	having been administered an oath, was examined and	10:13:33
18	testified as follows:	10:13:40
19	THE WITNESS: I do.	10:13:40
20	THE VIDEOGRAPHER: Please begin.	10:13:42
21	EXAMINATION	10:13:43
22	BY MR. BRADY:	10:13:43
23	Q Good morning, Professor Donohue.	10:13:43
24	You have been designated as an expert witness by	10:13:45
25	the California Attorney General's Office in the matter	10:13:48
		Page 7

1	that people who acquired these firearms would that	12:28:39
2	would be No. 1 the No. 1 response or reason that	12:28:42
3	people who acquired these firearms would give?	12:28:45
4	A Well, this is the point of why I'm skeptical	12:28:48
5	about survey data for certain things. If they answered	12:28:53
6	truthfully, sure, lots of them would say that, but most	12:28:58
7	of them would say, hey, I don't want to look like a	12:29:01
8	weenie here, so the reason why I got the gun is so	12:29:04
9	people wouldn't think I'm a weenie. So you are not	12:29:07
10	going to get a a truthful answer on this question.	12:29:09
11	And you don't even give them a choice for that,	12:29:12
12	so how could this possibly be useful?	12:29:15
13	Q Have you reviewed the survey that went out to	12:29:20
14	collect these responses?	12:29:24
15	A I've not.	12:29:25
16	Q And you don't know the methodology for which	12:29:27
17	they the NSSF?	12:29:33
18	A I mean, you know, I remember when Microsoft was	12:29:37
19	being sued, and Bill Gates sent out an e-mail saying,	12:29:39
20	you know, "Get me some survey that says we need the	12:29:44
21	browser connected to the search engine," and, you know,	12:29:50
22	a few weeks later, they concocted a survey that said the	12:29:57
23	browser should be connected to the search engine, but	12:30:01
24	so you have to be very cautious about these industry	12:30:08
25	groups creating surveys to you know, I mean,	12:30:11
		Page 75

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1	obviously they want to say it's good for home defense.	12:30:16
2	You know, most real gun experts will tell you, "No.	12:30:21
3	This is not only not necessary for self-defense, but is	12:30:24
4	not an important factor for people who understand	12:30:29
5	guns"	12:30:34
6	Q Most gun experts would say that? On what do you	12:30:35
7	base that?	12:30:39
8	A Conversations with gun experts	12:30:39
9	Q How many?	12:30:44
10	A Hundreds. Hundreds.	12:30:47
11	Q Can you name one gun expert that said that an	12:30:50
12	AR-15 is not important for self-defense?	12:30:53
13	A Yeah, I can name plenty, but let me give you	12:30:56
14	someone of some prominence.	12:31:02
15	Dean Winslow, he is former colonel in the Army	12:31:06
16	and was nominated by James Mattis to be the assistant	12:31:15
17	secretary of defense for medical affairs, and I	12:31:23
18	reference him in my report, and he is very clear about	12:31:28
19	the absolute inappropriate nature of these weapons for	12:31:37
20	both home defense and for civilian use in an	12:31:46
21	unrestrained and unrestricted way. "So, yeah, shooting	12:31:50
22	is a blast, and I I enjoy shooting," he'll he'll	12:31:54
23	say, but the idea you need this for anything other than	12:31:59
24	having fun is is really quite a stretch.	12:32:03
25	Q And he's a self-defense expert?	12:32:06
		Page 76

1	A Yeah, I mean, he's	12:32:08
2	Q What are his credentials in self-defense	12:32:12
3	expertise?	12:32:15
4	A You know, I I can amend my report if you would	12:32:15
5	like me to include all of his credentials on that, but	12:32:25
6	it is	12:32:30
7	Q No. I'm sure you could find an expert to say	12:32:31
8	anything.	12:32:36
9	What you said was that most gun experts say that	12:32:37
10	these rifles are not important for self-defense, and it	12:32:42
11	sounds to me that you are then you said you are	12:32:46
12	basing that on your conversations with these experts,	12:32:48
13	hundreds of them.	12:32:52
14	A Yeah.	12:32:53
15	Q You have given one example, and	12:32:53
16	A And and so	12:32:53
17	Q but you don't know his self-defense	12:32:57
18	credentials?	12:32:59
19	A Yeah, and I	12:32:59
20	MR. CHANG: Objection as to "self-defense	12:33:00
21	credentials" as vague and ambiguous.	12:33:03
22	BY MR. BRADY:	12:33:04
23	Q Does he train people on self-defense, to your	12:33:04
24	knowledge?	12:33:06
25	A No. No.	12:33:06
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1	Q And were those assault weapons?	03:56:23
2	A You know, I I haven't made a full	03:56:25
3	investigation of of that, but we we certainly know	03:56:30
4	that there there were cases of exactly that	03:56:34
5	happening.	03:56:39
6	Q Handguns seem very concealable; right?	03:56:39
7	A That's that's their their greatest virtue	03:56:44
8	for criminals.	03:56:49
9	Q Are more mass shootings performed with handguns	03:56:50
10	or rifles, in your study?	03:56:53
11	A Well, now, we do have to be careful because we	03:56:56
12	have this issue about all of the conflicting definitions	03:57:08
13	of of "mass shootings," but certainly, you know,	03:57:13
14	handguns are are much more common weapon in in	03:57:18
15	criminal activity overall.	03:57:24
16	Q So would it be fair to say that the definition of	03:57:33
17	"assault weapon" under the federal law is somewhat	03:57:37
18	confusing?	03:57:47
19	MR. CHANG: Objection; vague and ambiguous.	03:57:51
20	THE WITNESS: Yeah, so there there are	03:57:56
21	there are two issues here.	03:57:59
22	We we know, with 100 percent clarity, what's	03:58:00
23	the best thing to do in theory, and then there are	03:58:05
24	questions about how we implement it.	03:58:09
25	So there's no question that limiting the power	03:58:11
		Page 155

1	and constructiveness of civilian weaponry is beneficial.	03:58:17
2	There's no question to that, zero doubt.	03:58:22
3	There are questions about how one gets to that.	03:58:26
4	Nobody who's serious although, I will say, more than	03:58:30
5	one NRA member has questioned me when I said this.	03:58:35
6	Nobody thinks again, except for a number of NRA	03:58:40
7	members who question it that you should be able to	03:58:46
8	have nuclear arms at your disposal. Couple of NRA	03:58:48
9	people said the Second Amendment says you have the right	03:58:55
10	to keep and bear arms. Nuclear arms are arms, so I	03:58:59
11	should have the right. But that is crazy, and I think	03:59:01
12	we can all agree civilian arms have to be limited, and	03:59:03
13	the question is: How do we achieve that goal so that we	03:59:09
14	limit the criminal use of these guns as much as possible	03:59:16
15	without undermining the ability to engage in, you know,	03:59:21
16	either helpful or at least not hurtful uses of these	03:59:29
17	guns.	03:59:33
18	Most of the time when a AR-15 is being used, it's	03:59:34
19	being used for fun, and so, you know, nobody wants to be	03:59:39
20	a killjoy. We want people to have fun. But we also	03:59:44
21	have to trade off against that. The fact that when	03:59:48
22	people are getting killed in school shootings and other	03:59:53
23	venues, that's a very socially costly use of these guns,	03:59:59
24	so that's the trade-off, restricting power and	04:00:02
25	effectiveness that will promote mass shootings versus	04:00:06
		Page 156

	11.1001	
1	inhibiting fun, and that's what that's what the law	04:00:11
2	has to struggle with.	04:00:16
3	It turns out it's not easy to define and limit	04:00:17
4	the the destructiveness and power of weapons when you	04:00:24
5	have, you know, dedicated efforts to circumvent any	04:00:29
6	limit that that you are putting into place by	04:00:34
7	manufacturers who are trying to get around the law and	04:00:38
8	other efforts of that sort.	04:00:43
9	But but, in theory, the goal is clear and	04:00:47
10	unassailable. You want to limit the power and	04:00:49
11	effectiveness of guns for use by mass killers.	04:00:53
12	BY MR. BRADY:	04:00:56
13	Q Even if that means limiting the effectiveness for	04:01:05
14	the good guys?	04:01:10
15	MR. CHANG: Objection; vague and ambiguous as to	04:01:14
16	"the good guys."	04:01:16
17	THE WITNESS: Yeah.	04:01:20
18	BY MR. BRADY:	04:01:20
19	Q People who aren't trying to kill people	04:01:21
20	criminally.	04:01:24
21	A Yeah, I mean, the problem is, most of the mass	04:01:26
22	killers were the good guys until they started to be the	04:01:28
23	mass killers, so it's very hard to separate out these	04:01:32
24	two groups.	04:01:35
25	Q That could be said about anything; right?	04:01:35
		Page 157

A Well, not no, not really. Q A guy wasn't a drunk driver until he drove drunk. A Right, but that's why we prohibit drunk driving, 04:01:5 so we're we're trying to stop some of these behaviors 04:01:5 and 04:01:5 7 The behavior, but you are not taking away power 04:01:5 8 taking away horsepower that makes a car go and allows a 04:02:0 8 taking away horsepower that makes a car go and allows a 04:02:0 9 bad guy to evade police and potentially crash into a 04:02:0 10 bunch of pedestrians; right? 04:02:1 A Well, you know, it probably is true that we 04:02:1 21 should regulate guns more like we regulate cars, but you 04:02:2 3 can't do everything, and you you don't want to you 04:02:2 4 don't want to inhibit too much fun uses of guns, but 04:02:2 4 you you also want to inhibit power and capacity to 04:02:3 5 to limit the pernicious use of the guns. And since it's 04:02:4 8 going to be almost impossible to sort out who the good 04:02:4 9 going to be almost impossible to sort out who the good 04:02:4 18 guy and the bad guy is beforehand for mass shootings, 04:02:5 19 there are a limited set of tools that the government has 04:02:5 20 Okay. Getting back to your report, paragraph 112 04:03:0	
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guy and the bad guy is beforehand for mass shootings, 04:02:5 there are a limited set of tools that the government has 04:02:5 to address this growing problem. 04:03:0	3
there are a limited set of tools that the government has 04:02:5 to address this growing problem. 04:03:0	7
20 to address this growing problem. 04:03:0	0
	7
Q Okay. Getting back to your report, paragraph 112 04:03:0	2
	5
22 on page 46 04:03:1	2
23 A Mm-hmm. 04:03:1	2
Q the last sentence of paragraph 112 you say: 04:03:1	б
The Police Executive Research Forum found that the 04:03:1	9
Page 15	8

Case 8:45%-c1-05%4641L95-337/2020clument 75362Filed For 1257/191 (Fragger 16) 8028 20 20 #:1989

1	relative usage of assault weapons in crime increased	04:03:24
2	after the ban's end with 38 percent of police agencies	04:03:28
3	reporting that criminals' use of assault weapons had	04:03:32
4	increased.	04:03:34
5	Did I accurately quote you there?	04:03:36
6	A That assumes to be correct.	04:03:38
7	Q Okay. What methodology did the Police Executive	04:03:42
8	Research Forum use in making that finding?	04:03:49
9	A You know, back to what we were talking about	04:03:51
10	earlier, they were just looking at, you know, these	04:03:56
11	agency reports and giving us the percentage of police	04:04:01
12	agencies reporting that criminal use of assault weapons	04:04:08
13	had increased.	04:04:11
14	Q In your work, is it common for police agencies to	04:04:13
15	keep track of assault weapons that they take into	04:04:19
16	custody?	04:04:25
17	A Well, some some do and some some don't,	04:04:25
18	and, you know, as I said, the paragraph starts off:	04:04:33
19	There is evidence that the federal assault weapon ban	04:04:42
20	was effective in limiting criminal use of assault	04:04:44
21	weapons. I I wasn't saying that, you know, a study	04:04:47
22	of the quality of my study on right-to-carry laws has	04:04:53
23	established, with a high degree of confidence, that	04:05:01
24	right-to-carry laws or that assault weapons, you	04:05:05
25	know, had this impact. I'm just saying there is	04:05:10
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	W.1000			
1	application; is that correct?	06:05:56		
2	A Yes.	06:05:56		
3	Q Now, looking at the top of this worksheet, just	06:05:56		
4	to make a speed up the process, I'll read it to you.	06:06:00		
5	It says "Dealer's Record of Sale (DROS) Worksheet";	06:06:03		
6	correct?	06:06:07		
7	A You are talking about the California one?	06:06:07		
8	Q Exactly. Exactly. Exhibit 19.	06:06:09		
9	A Yeah.	06:06:11		
10	Q So does have you seen this worksheet before?	06:06:11		
11	A No.	06:06:17		
12	Q Okay. So based on that title, does it suggest to	06:06:17		
13	you that this is a dealer's worksheet, something that 06:06:20			
14	the dealer fills out?	06:06:24		
15	A Yes.	06:06:25		
16	Q Okay. And it's a record of sale; correct, as	06:06:25		
17	indicated by its title?	06:06:30		
18	A Yes.	06:06:32		
19	Q So does would this suggest you know, is	06:06:32		
20	so I would you know, this is a record of sale made at	06:06:38		
21	the time that the firearm was sold.	06:06:45		
22	Would it be reasonable for someone who, you know,	06:06:47		
23	had one of these worksheets filled out at the time they	06:06:50		
24	purchased the weapon to think, perhaps, you know, years	06:06:53		
25	later, that this would be a registration application of	06:06:57		
		Page 228		

			,
1	their assault weapon?	06:07:01	
2	A Yeah, if if you have a car, for example, you	06:07:02	
3	might think when when the dealer sells it to me, we	06:07:06	
4	are going to get through one set of paperwork, but then	06:07:11	
5	I have to register register the car through another	06:07:14	
6	set set of documents. So, of course, some people	06:07:17	
7	make a mistake about everything, but it's not as though	06:07:22	
8	it would be a reasonable mistake to make.	06:07:27	
9	Q So looking at I want to switch to Exhibit 17,	06:07:30	
10	and this is your rebuttal report.	06:07:34	
11	A Yeah.	06:07:35	
12	Q You were you were previously questioned on	06:07:36	
13	paragraph 17 on page 7.	06:07:41	
14	A Mm-hmm.	06:07:43	
15	Q You know, in your in paragraph 17, you are	06:07:43	
16	saying there are approximately 166,000 assault rifles	06:07:49	
17	currently registered with the California DOJ.	06:07:53	
18	A Mm-hmm.	06:07:53	
19	Q And Mr. Brady mentioned that, you know, there	06:07:54	
20	are I believe there's approximately 52,000	06:07:59	
21	applications pending at the time.	06:08:01	
22	You know, and even assuming all 52,000	06:08:06	
23	applications were approved, that would bring in doing	06:08:08	
24	some quick math, that would bring bring the total	06:08:13	
25	number of registered assault rifles to 218,000	06:08:15	
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1	A Mm-hmm.	06:08:15
2	Q or thereabouts.	06:08:19
3	A Yeah.	06:08:20
4	Q Would that change your opinion that the estimate	06:08:21
5	made by Klausman [phonetic] and Long as to the number of	06:08:29
6	AR-15s in California was a gross estimation?	06:08:34
7	A No.	06:08:37
8	Q Now, still on paragraph 17, you know, I think you	06:08:43
9	concluded in the paragraphs above	06:08:46
10	A Mm-hmm.	06:08:46
11	Q and correct me if I'm wrong, that you	06:08:49
12	concluded that Klausman and Long's estimate for number	06:08:51
13	AR-15s in the U.S. is was on overestimation; correct?	06:08:57
14	A Yes.	06:09:02
15	Q And and then you does that include Klausman	06:09:02
16	and Long's estimation of the number of AR-15s in	06:09:07
17	California?	06:09:10
18	A Yes.	06:09:10
19	Q So given that the number of assault rifles	06:09:10
20	actually registered with California DOJ is less than	06:09:15
21	what Klausman and Long estimated, is it reasonable	06:09:20
22	does it is it evidence that Klausman and Long's	06:09:28
23	estimate for nationwide numbers were also an	06:09:31
24	overestimation?	06:09:38
25	MR. BRADY: Objection; calls for speculation,	06:09:38
		Page 230

1	beyond the scope of what the expert was called to	06:09:40
2	testify about, irrelevant.	06:09:42
3	MR. CHANG: Well, Mr. Brady, you you asked him	06:09:46
4	about California versus national rates.	06:09:48
5	MR. BRADY: And he said it didn't apply. He said	06:09:50
6	he wasn't expanding it to that, but go ahead.	06:09:53
7	MR. CHANG: Well, I'm asking him to clarify now.	06:09:54
8	Q So Mr	06:09:59
9	MR. BRADY: He clarified it.	06:09:59
10	BY MR. CHANG:	06:10:00
11	Q Professor Donohue, so, you know, does does the	06:10:01
12	actual California data and what it says about Klausman	06:10:02
13	and Long's estimate for Cal AR-15s in California	06:10:07
14	does that provide any type of evidence with regard to	06:10:11
15	Klausman and Long's estimate for nationwide data?	06:10:13
16	MR. BRADY: Objection; beyond the scope of the	06:10:16
17	deposition. I didn't ask him anything about Klausman	06:10:17
18	and Long. Redirect should be limited to questions	06:10:20
19	about on on direct deposition.	06:10:24
20	BY MR. CHANG:	06:10:28
21	Q You were asked about the paragraphs above	06:10:29
22	paragraph 17; correct?	06:10:31
23	A Yes.	06:10:33
24	Q I mean, Klausman and Long weren't specifically	06:10:33
25	mentioned, but paragraphs your paragraphs 15 and 16	06:10:36
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1	discussed Klausman and Long's estimates; correct?	06:10:39		
2	A Yes.	06:10:42		
3	Q So would you do you still need to repeat my	06:10:42		
4	question [sic], or do you understand my question?	06:10:47		
5	A No, I think I understand.	06:10:48		
6	So so what I had said in response to Sean's	06:10:49		
7	question was that, you know, the the the factors	06:10:53		
8	that suppress ownership in California don't apply across	06:11:00		
9	the country, but the elements of the Klausman and Long	06:11:07		
10	estimate that lead to overestimation of the number of	06:11:12		
11	assault weapons applies whether you are talking about	06:11:18		
12	nationally or within California. 06:11:21			
13	Q All right. Thank you, Professor Donohue.	06:11:26		
14	If we can move to Exhibit 15, and this is the	06:11:29		
15	Adam Lankford article	06:11:34		
16	A Yes.	06:11:34		
17	Q paper.	06:11:37		
18	A Where is my oh, here it is. Got it.	06:11:37		
19	Q And do you have Exhibit 16 on hand as well?	06:11:44		
20	A I think I do.	06:11:46		
21	Q Okay. Now, do you know one way or the other	06:11:47		
22	A Mm-hmm.	06:11:47		
23	Q for certain that Exhibit 16 was the NYPD data	06:11:54		
24	set that Adam Lankford reviewed and relied on for his	06:12:03		
25	paper that's Exhibit 15?	06:12:09		
		Page 232		

Case 8:45%-c1-05%4641L95-337/2020clument 75362Filed For 1257/1914 For 2012 18628 28 28 28 1D #:1995

1	A I mean, he says that he relied on let me just	06:12:10
2	quote. He said: Data for this study were first drawn	06:12:21
3	from the New York City Police Department's 2012 Active	06:12:29
4	Shooter Report. So that that's the first place that	06:12:36
5	he he started with when he was compiling his overall	06:12:42
6	data set.	06:12:45
7	Q Right.	06:12:45
8	Professor Donohue, my question is: Do you know	06:12:46
9	for certain, one way or the other, whether Exhibit 16 is	06:12:48
10	the same data set that Adam Lankford relied on for his	06:12:52
11	paper?	06:12:57
12	A No.	06:12:57
13	Q There is some discussion earlier, if you can turn	06:12:57
14	to page 194 well, I just before you do that,	06:13:02
15	there's some discussion about non-English-speaking	06:13:07
16	countries and whether the data set includes that.	06:13:09
17	A Mm-hmm.	06:13:09
18	Q You know, this is a study according to the	06:13:14
19	title, this is a study of 171 countries	06:13:15
20	A Mm-hmm.	06:13:15
21	Q correct?	06:13:18
22	A Yes.	06:13:18
23	Q Do you know if there are 171 English-speaking	06:13:18
24	countries, or more or less than that?	06:13:21
25	A Less than that.	06:13:23
		Page 233

Case 8:45%-c1-05%4641L95-337/£2020clument 1676262 Filed For 1725/£191 (Fragge 231 6728 28 28 age ID #:1996

1	Q Okay. Does that suggest to you this study	06:13:24			
2	includes non-English-speaking countries?	06:13:27			
3	A Yes.	06:13:29			
4	Q Okay. Now, if we turn to page 194, I'll direct	06:13:29			
5	your attention to the first paragraph under	06:13:36			
6	"Discussion"	06:13:38			
7	A Mm-hmm.	06:13:38			
8	Q and I'll just read the sentence. It's the	06:13:41			
9	second third it's the third sentence. It says:	06:13:43			
10	Some of the most dangerous countries in terms of	06:13:47			
11	homicide risk, such as Venezuela, Nigeria, and Mexico,	06:13:49			
12	had very few offenders; is that correct?	06:13:53			
13	A Yes.	06:13:55			
14	Q Okay. Now I'm going to skip down to the last	06:13:55			
15	full paragraph, about, you know, the fourth line down.	06:13:59			
16	It says: For example, the Small Arms Survey, 2007, 06:14:09				
17	lists the United States, Yemen, Switzerland, Finland,	06:14:10			
18	and Serbia as the top five countries in civilian firearm	06:14:13			
19	ownership rates, and all five countries also ranked in	06:14:15			
20	the top 15 in public mass shooters per capita; is that	06:14:18			
21	correct?	06:14:21			
22	A Yes.	06:14:21			
23	Q And then, two sentences down: In fact,	06:14:21			
24	Switzerland and Finland are commonly assumed to be	06:14:24			
25	extremely peaceful nations, and there may be much merit	06:14:26			
		Page 234			

			,
1	to those generalizations. However, this study's	06:14:29	
2	findings and the availability of firearms within their	06:14:32	
3	borders suggest that their relatively high rate of	06:14:35	
4	public mass shootings may not simply be attributed to	06:14:37	
5	bad luck.	06:14:40	
6	Is that a correct quote?	06:14:42	
7	A Yes.	06:14:43	
8	Q Now, you know, reviewing his discussions there,	06:14:43	
9	there are a number of countries that are mentioned.	06:14:47	
10	A Mm-hmm.	06:14:47	
11	Q Are there do they include non-English-speaking	06:14:50	
12	countries?	06:14:53	
13	A Yes.	06:14:53	
14	Q Does this suggest to you that his data set	06:14:53	
15	includes non-English-speaking countries?	06:14:56	
16	MR. BRADY: Objection; calls for speculation,	06:14:58	
17	beyond the scope.	06:14:59	
18	THE WITNESS: Yes.	06:15:01	
19	BY MR. CHANG:	06:15:03	
20	Q Okay. And I want to also ask you so here we	06:15:04	
21	are talking about public mass shootings in the context	06:15:10	
22	of gun policy.	06:15:15	
23	A Mm-hmm.	06:15:15	
24	Q Now, if there's a shooting, say, for example, in	06:15:19	
25	Somalia by a Somalian warlord who raids a local village	06:15:23	
		Page 235	

Case ବିମ୍ୟୁଟ-c1-205% ହେଁ ଅଟି ଓଡ଼ିଆ ଓଡ଼ିଆ

1	and shoots a number of people, would that incident be	06:15:28
2	relevant for a a public policy study on on public	06:15:32
3	mass shootings and firearms?	06:15:39
4	A No.	06:15:41
5	Q And why not?	06:15:42
6	A Well, what we are trying to think about is what	06:15:43
7	in the context of the United States will be the impact	06:15:48
8	of these types of regulations. And so when making that	06:15:52
9	determination, you can look to sort of comparable	06:15:58
10	countries to evaluate, you know, how the relative	06:16:01
11	countries are doing in this respect, but if you have a	06:16:08
12	country like Yemen, which, essentially, has no	06:16:12
13	functioning criminal justice system and probably does	06:16:15
14	have the type of warlord activity that you alluded to,	06:16:19
15	it's simply not a good comparator set. And, of course,	06:16:25
16	this has been an enormous problem with, you know, much	06:16:29
17	work by John Lott and others that have tried to make it	06:16:33
18	seem that the U.S. is is a relatively low-risk	06:16:39
19	country in terms of some of these gun crimes when he's	06:16:47
20	often comparing countries that have no effective	06:16:51
21	criminal justice system operating, and, therefore, they	06:16:55
22	are simply not good comparator states.	06:16:59
23	Q Okay. And your answer would be true if if	06:17:01
24	there's a mass shooting by, for example, rebel	06:17:03
25	guerrillas in the jungles of some country without an	06:17:06
		Page 236

Case 9:45%-c1-05%4641L95-33752020clumente 1676362Filled For 17257191 Pragas 261 8628 2638 1D #:1999

1	effect	ive functioning government?	06:17:09
2	A	Yeah, so that would be the same.	06:17:11
3	Q	If we could you turn to page	06:17:28
4		(Discussion off the stenographic record.)	06:17:28
5		MR. CHANG: Could you turn to I'm trying to be	06:17:30
6	concis	e.	06:17:31
7		THE WITNESS: Mm-hmm.	06:17:31
8	BY MR.	CHANG:	06:17:31
9	Q	If you could turn to paragraph 46	06:17:32
10		MR. BRADY: Maybe we could stipulate to the	06:17:32
11	warlor	ds not being relevant.	06:17:34
12	BY MR.	CHANG:	06:17:36
13	Q	The page 46 of your report.	06:17:36
14	A	Page 46 the big report, yes.	06:17:38
15	Q	Paragraph 112.	06:17:41
16	A	Okay. Got it.	06:17:45
17	Q	There's some discussions about whether, you know,	06:17:50
18	the ev	idence or discussion about the evidence that	06:17:53
19	federa	l assault weapons ban was effective in limiting	06:17:56
20	crimin	al use of assault weapons.	06:17:59
21	A	Mm-hmm.	06:17:59
22	Q	To be clear, is it as you sit here today, is	06:18:03
23	it you:	r expert opinion that federal assault weapon ban	06:18:06
24	was ef	fective in limiting criminal use of assault	06:18:09
25	weapon	s?	06:18:12
			Page 237

Case 8:45%-c1-05%4641L95-367520604ment 1676362FNed For 17257191 Fragge 2718128 28 28 30 1D #:2000

1	MR. BRADY: Objection; asked and answered.	06:18:12
2	THE WITNESS: Yes, I think that's what the	06:18:13
3	evidence shows.	06:18:18
4	BY MR. CHANG:	06:18:19
5	Q Now, if we could turn to Exhibit 12.	06:18:20
6	Okay. Exhibit 12, this is the Reason-Rupp	06:18:26
7	survey.	06:18:31
8	A Yes. Got it.	06:18:32
9	Q You were questioned about the on page 10,	06:18:38
10	Question 37.	06:18:42
11	A Mm-hmm. Page 10, okay, 37. Yes.	06:18:49
12	Q Right.	06:18:55
13	So in previous discussion, I think at one	06:18:56
14	point and correct me if I'm wrong, at one point the	06:18:58
15	discussion there was some discussion that, you know,	06:19:02
16	based on the answer to the question to Question 37	06:19:05
17	A Mm-hmm.	06:19:05
18	Q that, you know, a quarter of the people	06:19:12
19	surveyed or slightly more than a quarter of the	06:19:16
20	people surveyed thought that an assault weapon was an	06:19:19
21	automatic weapon.	06:19:20
22	Is that how you recalled it?	06:19:20
23	A Yeah.	06:19:22
24	MR. BRADY: Objection; misstates test	06:19:22
25	testimony, misstates evidence.	06:19:23
		Page 238

1 2 3 I, the undersigned, a Certified Shorthand 4 5 Reporter of the State of California, do hereby certify: 6 That the foregoing proceedings were taken before 7 me at the time and place herein set forth; that any witnesses in the foregoing proceedings, prior to 8 9 testifying, were placed under oath; that a verbatim 10 record of the proceedings was made by me using machine 11 shorthand which was thereafter transcribed under my 12 direction; further, that the foregoing is an accurate 13 transcription thereof. I further certify that I am neither financially 14 15 interested in the action nor a relative or employee of 16 any attorney or any of the parties. 17 IN WITNESS WHEREOF, I have this date subscribed 18 my name. 19 20 Dated: December 24, 2018 2.1 22 23 2.4 RACHEL FERRIER 2.5 CSR No. 6948 Page 244

Exhibit 10

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1
                     UNITED STATES DISTRICT COURT
 2
                    CENTRAL DISTRICT OF CALIFORNIA
 3
                            SOUTHERN DIVISION
 4
     STEVEN RUPP, et al.,
 5
                 Plaintiffs,
 6
            vs.
 7
                                        ) Case No.:
     XAVIER BECERRA, in his official ) 8:17-cv-00746-JLS-JDE
     capacity as Attorney General of )
 8
     the State of California,
 9
10
            Defendant.
11
12
13
14
                      DEPOSITION OF BLAKE GRAHAM
15
16
                         Sacramento, California
17
                     Wednesday, December 19, 2018
18
                                Volume I
19
20
21
22
      Reported by:
23
      Kaitlyn B. Houston, CSR No. 14170
24
      Job No. 3135718
25
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1
                     UNITED STATES DISTRICT COURT
                    CENTRAL DISTRICT OF CALIFORNIA
 2
                            SOUTHERN DIVISION
 3
 4
 5
     STEVEN RUPP, et al.,
 6
                 Plaintiffs,
 7
                                             Case No.:
            vs.
 8
                                             8:17-cv-00746-JLS-JDE
     XAVIER BECERRA, in his official
 9
     capacity as Attorney General of
                                          )
     the State of California,
                                          )
10
                 Defendant.
11
12
13
14
15
16
      Deposition of BLAKE GRAHAM, Volume I, taken on behalf of
17
      Plaintiffs, at 1300 I Street, Sacramento, California,
18
      beginning at 10:53 a.m. and ending at 5:57 p.m. on
19
      Wednesday, December 19, 2018, before Kaitlyn B. Houston,
20
21
      Certified Shorthand Reporter No. 14170.
22
23
24
25
                                                          Page 2
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1
     APPEARANCES:
 2
     For Plaintiffs:
 3
     MICHEL & ASSOCIATES, P.C.
           SEAN A. BRADY, ESQ.
      180 East Ocean Boulevard, Suite 200
4
     Long Beach, CA 90802
      (562) 216-4444
5
      sbrady@michellawyers.com
6
 7
     For Defendant:
     ATTORNEY GENERAL OF THE STATE OF CALIFORNIA
8
     By: PETER H. CHANG, ESQ.
9
      455 Golden Gate Avenue, Suite 11000
      San Francisco, CA 94102
10
      (415) 510-3776
      Peter.Chang@doj.ca.gov
11
                                 --000--
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5			
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9	Exhibit 96		. 8
10	Exhibit 97		
		Blake Graham	
11		Brane Granam	
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1	Sacramento, California; Wednesday, December 19th, 2018
2	10:53 a.m.
3	BLAKE GRAHAM,
4	having been administered an oath, was examined and
5	testified as follows:
6	(Whereupon Exhibit 95 was premarked for
7	identification.)
8	EXAMINATION BY MR. BRADY
9	Q. Good morning, Mr. Graham.
10	A. Good morning.
11	Q. I believe you recall who I am, but in case you
12	don't, my name is Sean Brady. I am an attorney for the
13	plaintiffs in the matter of Rupp v Becerra, which you are
14	here designated as an expert witness on behalf of the
15	defendant, Attorney General Xavier Becerra.
16	Is that your understanding?
17	A. Yes, sir.
18	Q. Good morning, by the way.
19	A. Good morning.
20	Q. I have marked as Exhibit 95 a document entitled
21	Plaintiff's Amended Notice of Deposition of Defendant's
22	Expert Witness Blake Graham.
23	Have you seen this document?
24	A. Let me look at the date.
25	(Pause on the record.)
	Page 5

1 possession of weapons. Those types of things. So you were dealing with real bad, violent guys? 2 Q. Α. Yes. Okay. Were assault weapons a common feature of 4 Q. those investigations? Did you come across them often in 5 those investigations? 6 I would say they were present, but I don't know 7 Α. if I've ever tried to -- you know, capture -- that was 8 several years ago. If they had -- half of the guys that 9 10 we arrested or investigated had them or -- I don't really I know that some of them did, but I would probably 11 have, I think, trouble putting down a number of, you 12 know, five of these guys per year did or didn't have it 13 or, you know, something like that. 14 Okay. So you can't really say whether assault 15 weapons were common in those investigations? Commonly 16 come across in those investigations? 17 18 MR. CHANG: Objection. Vague and ambiguous as 19 to "assault weapons" and as to timing. BY MR. BRADY: 20 During your investigations between 1999 and 21 Ο. 2002, would you say it was common for you to come across 22 2.3 rifles defined as assault weapons in your investigations of violent crimes? 24 25 MR. CHANG: Objection. Vague and ambiguous as Page 10

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1
     to "common" and also as to the timing of the definition
     of "assault weapons."
 2
              THE WITNESS: I'm still allowed to answer,
 3
 4
     correct?
              MR. CHANG: Please.
 5
 6
              THE WITNESS:
                             Just so I don't get ahead of
     myself. So after all that back and forth, can you repeat
 7
 8
     the question?
                    Sorry.
 9
              MR. BRADY: Can you read it back?
10
               (Whereupon the record was read back.)
              MR. CHANG: Same objections.
11
12
              THE WITNESS: Understood. Okay.
13
               I can say that assault weapons were present to
14
     some degree. Firearms were -- the generic term of
     firearms would be the most common factor. Some of which
15
     -- some of those firearms would have met the definition
16
     of an assault weapon under 30510 because of the time in
17
18
     early '99, that would have been the only game in town as
     far as state law.
19
              Later on in that period of time that you spoke
20
     of, we had the three -- what are now called the 30515
21
     generic characteristics sort of standards. At the time,
22
     it was 12276 and 12276.1 in that window of time.
2.3
     BY MR. BRADY:
24
              Would you say that rifles meeting the definition
25
         Q.
                                                       Page 11
```

of assault weapon under Penal Code Section 30515 now were -- commonly come across in your investigations of violent crime during the period of 1999 to 2002?

A. To some degree, yes.

2.3

Q. You also say as a special agent during that period, you worked on various violations occurring at California gun shows.

How many gun shows were you attending during that period?

- A. Good question. Probably somewhere in the neighborhood of one a month. Maybe one every other month. I had a particular region, so that's why it's a little bit vague. I had from the San Jose area and then some of the Bay area -- I'm sorry, the North Bay.

 Depending on what gun shows were on calendar, it might vary.
- Q. Were rifles that meet the definition of assault weapon prevalent at these gun shows?
- A. In 1999, they would have been -- probably -- actually, in '99, we wouldn't have been doing a ton of gun shows because the gun show stuff sort of picked up probably late 2000 or 2001. So starting in 2000, there was a registration window for the Category 3 or, at the time, the 12276.1 identified weapons. So they were controlled. There shouldn't have been a lot of them out

particular mission. You might have to have some other function. You may be in charge of carrying a fire extinguisher in case there's pit bulls. You may have to just be that, and then you're going to have your handgun available to deal with it that way.

- Q. During this training, is -- are the buildings that you're entering generally close quarters?
 - A. Yes.
- 9 MR. CHANG: Objection. Vague and ambiguous.
- 10 BY MR. BRADY:

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- Q. Would you say that, generally, it's within handgun range? Every -- every -- wall to wall? Would you ever enter a building where the wall furthest away from you was beyond effective handgun range?
 - A. In -- during the training class or in reality?
 - Q. Let's start with the training class.
- A. In the training classes, it would be rare for us to have access to a facility that would be some kind of a giant warehouse, let's say, where it's just a big shell and no smaller walls, you know, dividing up in between those exterior four walls. Maybe like -- I mean, I had to think about, like, what you -- what you meant like that, but I'm going to say like an airplane hanger where it's just a giant empty box.
 - Q. Sure.

2.3

- A. Something like that, that might be a scenario in the real world where we have to go for some reason.

 Maybe there's a marijuana grow in the hanger. It's just a great place to grow weed. That might be a reality, but we probably wouldn't have a lot of access to something like that, but it might be a reality, but...
- Q. I was just -- so -- but when they're training you, it is to do entry weapons training. Is it generally within walls that are confined to effective handgun range?
- A. Typically, yes. But part of that same school is how do you approach the building first, which you might start a hundred yards down a dirt road, walk up to that facility that you're going to, in a sense, assault because of a search warrant, and the -- this training class usually incorporates the simulation of a breacher that's going to break the door, and then the first -- you know, basically all the team will flow in and conduct the search of those rooms inside the location.

So there are plenty of times where you have to get from your vehicles up to the building and there's long distances where a handgun would not be a great -- a great weapon if that's your only weapon.

Q. Did this course train you that when entering a house or a similar structure, when you're entering with a

rifle, to continue with the rifle or to put the rifle away and retrieve a handgun?

- A. If there was a malfunction of the long gun, we're trained to transition to our handgun. If there's a scenario in which the long gun is too -- too long, pardon the pun, but if it's too cumbersome to use in a tight space, we're trained to transition to a handgun.

 Sometimes on staircases, it's best to incorporate a handgun and a long gun. Sometimes going around corners, it's easier to use a handgun than a long gun in some instances. Going into an attic, for example.
- Q. But entering a home necessarily does not mean transition to a handgun, right?
 - A. No. No.

2.3

Q. Two items down, you say on January 20th, 2002, you completed a 24-hour class in assault rifle training.

Can you describe what that training was about?

A. Yeah. That was -- I believe that was at either Camp Roberts -- I'm trying to think here -- or Fort Hunter Liggit down in maybe like San Luis Obispo area off the Highway 101, and that class was for those people that had an M4 issued to them.

It was about basically teaching long distance marksmanship to, like, say, like, 400 yards with iron sights. That kind of stuff. We have access to the

to right at 30, whether it be a fixed or telescoping stock version, making something smaller, it makes it more versatile if I'm going to try to get it into a -- maybe a -- I don't know -- a school zone or something like that. It gives flexibility as far as the shooter. They can customize it to their body fit, as well.

- Q. But my point is that you can buy with a fixed stock at 30 inches, right?
 - A. Yes.

2.3

Q. So it's already as concealable as it's going to get with the fixed stock or -- whether it has a fixed stock or an adjustable stock, at 30 inches, that's as concealable as it gets?

MR. CHANG: Objection. Asked and answered.

THE WITNESS: So larger frame shooters may choose to have longer weapons because of their body type. They may seek a telescoping stock variant to -- when I say concealability, that might be because they have some bad intent to do. Get it into a building or something like that.

Granted, you can buy a weapon with a fixed stock, and it's locked in at 30 or 31 inches. Whatever it's going to be. But having the freedom to telescope it down and back it off so that it's longer to fit the shooter's needs, it's an advantage.

BY MR. BRADY:

- Q. You don't think that a change of three to four inches is fairly negligible when you're talking about concealment of a firearm?
- A. No. I think it's kind of significant. The AR platforms come in various lengths. Barrel lengths are around 16 for the standard ones. And then if you go down to the short barrel rifle or machine gun versions, they're 14-and-a-half-inch barrel, and then a 10- or 11-inch barrel, too. Different stages of those upper receivers.

The smaller you get, the -- those chunks taken off the end of the barrel, as you're -- if you're clearing houses, like what I do for a living sometimes, having the shorter barrel will aid you in not giving away your position if you're creeping around trying to clear a house. That is an advantage. I'm not going to give myself away by having a long barrel sticking out in front of me.

- Q. So there are -- you have an adjustable stock on your rifle?
 - A. On my M4, yes.
- Q. So they are of -- why do you have an adjustable stock on your rifle?
 - A. Why do I?

Q. Yes.

2.3

- A. The department issued me that rifle, and it had it when I got it.
- Q. Would you prefer a rifle that did not have an adjustable stock?
- A. No. I'm happy with it having an adjustable one because I have different levels of body armor, thickness levels. So between the heaviest armor that I wear for search warrants, it's definitely thicker, and I have to put it on a different setting. Otherwise it causes me problems.
- Q. Okay. And why -- why do you need different -- different lengths of the rifle? Why do you need to change the stock to accommodate the body armor? Why can't it just be a fixed stock?
- A. Ergonomics because sometimes I have a helmet on.

 Sometimes I have Level 4 body armor on with a rifle

 plate. I'm very -- my girth increases, if that makes

 sense. So I need to shorten the stock so I can have the

 same sight picture, the same eye relief, etcetera.

So if I have a T-shirt on, I might change the position because I don't have, you know, two or three inches of body armor on.

Q. So you're saying that the length of stock can affect your ability to -- to effectively use the firearm?

- Q. And your department use of force policy is -- is what? Can you explain?
 - A. Yeah. I'll give it a shot. I'm not the department's expert.

2.3

- Q. What is your understanding of when you are able to use up to deadly force?
- A. If you boil it down, it's basically to prevent serious bodily injury to myself, other law enforcement, or other members of the public that might be subject to an immediate attack. Somebody may be swinging a weapon or throwing a brick or shooting at one of us, and there's nothing else that can potentially stop that from happening. So you have to stop the threat by potentially using lethal force against the aggressor.
- Q. Is that standard any different than for a non-law enforcement member of the public, to your knowledge?
- A. There's -- there's a specific Penal Code that breaks down justified homicide, and there might be a separate exemption that is carved out for law enforcement versus civilian. I'm not an expert on that area, so I don't want to comment, but I think there might be some differentiation, at least a separate exemption broken down there.
 - Q. Generally, you're only using lethal force to

1 protect a threat to life or great bodily injury; is that fair to say? 2 Α. Yes. Have you ever had to use lethal force? 4 Q. Α. No. 5 Have you ever discharged your weapon in the line 6 Q. of duty towards a human being? 7 Α. No. 8 Have you ever pointed your gun at anybody in the 9 10 line of duty? Hundreds of times. 11 Α. Hundreds of times. 12 Q. 13 Why didn't you shoot in any of those hundreds of 14 times? I didn't feel a threat that would justify me 15 Α. pulling the trigger. 16 17 Was that -- out of those hundreds of times, was Q. 18 it with your pistol or with your rifle or both? Α. Both. 19 Do you notice a difference in the response from 20 the suspects when you're pointing a pistol versus a rifle 21 at them in their reaction to you? 22 2.3 Α. No, not really. I would say in every occurrence that this has happened, I've usually had one or more 24 25 partners with me also doing the same thing, and they may Page 110

1 have had a pistol or a rifle whereas I had the opposite. Sometimes it was all of us had rifles. Sometimes all of 2 us had pistols. 3 So when you're in that moment, I've never 4 noticed someone all of a sudden their eyes get bigger 5 than they already are if somebody with a rifle walks into 6 the room and there's already a Glock or two pointed at 7 I've never noticed that. 8 Have you ever had a situation where a suspect 9 10 was not complying because they didn't realize you had a gun out? 11 12 Α. No. 13 Q. No? 14 Α. Huh-uh. (Pause on the record.) 15 BY MR. BRADY: 16 17 So we went through the features that are Q. 18 restricted on a semiautomatic centerfire rifle that does not have a fixed magazine as defined in California Penal 19 Code Section 30515 that you describe in your report. 20 I'll note that we did not go through thumbhole stocks 21 because would you agree that those are essentially pistol 22 2.3 grips? 24 Α. Agreed. 25 Q. And forward pistol grips are essentially the Page 111

1 same as pistol grips? 2 Α. Agreed. So that is why we did not discuss those, but 3 Q. they're implicit in the pistol grip analysis. 4 And in discussing those -- correct me if I'm 5 wrong, but it is my understanding that you believe that 6 each of those features is beneficial to the user of a 7 firearm; is that fair to say? 8 Α. Yes. 9 10 Ο. But is it then your opinion that because those features are beneficial to bad guys as well as good guys, 11 12 that that's why they should be restricted? 13 Α. Well, it's not really up to -- sorry. 14 MR. CHANG: Objection. Lacks foundation. It's not really up to me to say 15 THE WITNESS: what is permissible, per se, under state law. 16 legislature sets that up. So I'm not sure if that's 17 18 responsive to your question. BY MR. BRADY: 19 I'm not asking your opinion on the law unless 20 you want to give it. I was planning to not put you in 21 that position because I'm friendlier than that, but I 22 2.3 understand that you're dealing with the law that is in front of you, but you are making the -- the case for why 24 25 each of these features in Penal Code Section 30515 is

problematic from the state's view. From a public safety perspective, right?

A. Yes. So I'm making the point that each of those features, in my eyes, has some kind of advantage that it gives to the shooter. It's not necessarily, you know -- bad things can happen with guns.

We have the so -- on page 9, we have Rifle A and Rifle B. They both fire the same ammunition. They're both semiautomatic. The magazines are interchangeable. Rifle B has some of the features. I wouldn't want to get shot by either Rifle A or Rifle B. And depending on the skill level of my opponent, it may not make a difference. But the average person picking up Rifle A or Rifle B, I would probably prefer them to have Rifle A.

Q. Why?

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A. Because they -- Rifle A lacks a few ergonomic features that I would want myself, so doesn't have a flash suppressor. If this guy is shooting at me in a low light situation, I do want him to be maybe -- his vision to be impaired probably because there's no flash suppressor there.

Maybe this person stole the weapon and maybe their arms are so short that they're having a hard time shooting or aiming this thing, so I don't necessarily want them to be able to collapse the stock down or to,

you know, make the weapon smaller or to conceal it or something like that.

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The pistol grip, earlier I gave examples of magazine exchange being slightly faster for me which could apply to another person. With that pistol grip, they can keep their gun on site, which might be aimed at me. I would want them to come off of target while they're trying to fumble to get their mag exchange and then come back up and find me to start shooting at me again.

So the Rifle B, to me, has tactical advantages over Rifle A. So that's my point in calling out those features as perhaps why the legislature called out certain features.

We didn't -- in California law, we never worried about bayonet lugs. The federal law did at one point.

Rifle B -- the picture has a bayonet plug, but I didn't it speak to it. I'm not aware of any people getting bayonetted, so -- but other things do happen. A lot of shootings happen with, you know, various weapons.

Rifle A and B, there's a lot more Rifle As out there in the general population. They're still legal for sale just like that.

Q. And features on Rifle B that make it easier for a bad guy to use would likewise make the rifle easier for

a good guy to use, right?

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- A. Potentially, yeah. It's a double-edged sword.
- Q. And by taking away the features from Rifle B, that could potentially contribute to a better fit of firearm for a user. The state is basically saying that the general public should have less effective weapons than -- because the most effective ones could be misused by criminals, right?

MR. CHANG: Objection. Lacks foundation. Speculative. Argumentative.

THE WITNESS: Since 1989, the legislature has called out certain military-style weapons. Albeit, they've been semiautomatic ones. Most of the ones called out in 30510 have been ones that had one or more of the features on Rifle B. Some of them have multiple features like that.

The 30510 sort of scheme for registration and the control and lack of sales of those after that lawsuit was settled in 1991, I think, didn't quite work, so the legislature sort of reinvented the wheel and went down the path of what the federal government had done by calling out certain generic characteristics.

Probably neither of these is a perfect sort of fix to what they perceive is a problem. They obviously have evolved over time with the Senate Bill 880 being the

1 most recent version of the assault weapons changes over The weapons over time are changing, and the laws 2 are slowly changing behind them, sometimes ten years or 3 later after a significant change has occurred like the bullet button sort of change. 5 BY MR. BRADY: 6 So you gave some examples of why you would Q. prefer a bad quy shooting at you having Rifle A versus 8 Rifle B and that had to do with maybe they stole it, so, 9 10 you know, the stock doesn't fit them right. That makes sense. You know, if it's in low light, it doesn't have a 11 12 flash suppressor, they may lose their night vision and 13 not be able to see you for the follow-up shot. Okay. 14 But in a general daytime situation with an average -- average build person with Rifle A versus 15 Rifle B, how much of a difference do these features 16 17 really make for accuracy? 18 Α. Could you discuss the range of which -- let's say two people squared off. One with Rifle A and one 19 with Rifle B. 20 21 How far apart are they? Why don't you tell me what the difference would 22 Q. 2.3 be. If the shooters were -- I don't know -- 50 to 24 100 yards apart and shooting each other, the shooter with 25

Rifle B would probably want to have the stock extended out like in the picture because they're going to want to have the best and most accurate shot. The longer -- with the stock extended like this, it's going to mimic the stock on Rifle A. The advantage that this weapon here will have is during the reload, they're going to have the pistol grip. They can keep the weapon up and roughly pointed at the target when the mag exchange happens --

- Q. You can't do that with Rifle A?
- A. You can. I find it troublesome with this specific weapon. I've fired both versions of this the department owns. And to me, it's just harder to reload this while keeping the weapon up.
- Q. Have you ever done a side-by-side comparison of -- of Rifle A and Rifle B? Obviously not those specific rifles, but a -- a featureless rifle, which is Rifle A, and a featured assault rifle, which is Rifle B?
 - A. Yes.

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- Q. You've done a side-by-side comparison?
- A. Yes. Folsom prison. We did it there with a bunch of other guns that we had laid out for a training day to get people accustomed to as we seize these, "Hey, you're going to find these weapons. And some will be loaded. Some will be not loaded." We've done it with AKs so that people are used to shooting and hearing the

sounds of certain weapons if they're fired at you.

Submachine guns, machine guns, etcetera.

So our agents -- we try to train them so that they can safely -- when they recover weapons, they're making sure they're clearing the chamber, making sure we're not taking loaded guns home -- or back to the office for our evidence technicians to have an accidental discharge or things like that. So there's a good reason to have these out there and shoot various ones.

We have a -- one that looks a lot like Rifle B, and then there's a one that looks a lot like Rifle A, and I think there's one or two other variants that are sort of in between with, like, a flash suppressor attached, and then there's another version that has some other change to it. I think it might be stainless or something.

- Q. And you shot those side by side on the same day at the same targets?
 - A. Yeah. Yeah.

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- Q. And what was the difference in your groupings?
- A. It was -- I don't know that it was a groupings difference. It was my speed to which -- it wasn't a timed test, per se, but it was how quickly could I fire enough rounds to stop the threat. That type of thing.

If I was doing two rounds, mag change, put the

1 new mag in, charge it, and then two more rounds, it was three or four seconds slower with the rifle that was 2 similar to Rifle A. 3 Okay. So then your effective rate of fire was 4 Ο. not as -- was slower than the actual rate of fire. 5 Is that fair to say with Rifle A versus Rifle B? 6 Rifle A, I was a little bit slower. 7 Α. Yes. distance in which we were shooting was seven yards. 8 Q. Okay. 9 10 Α. So the distance -- it was negligible. 11 So accuracy did not change between the two? Q. 12 I didn't notice a much larger pattern. Α. 13 It was the magazine change that made the Ο. 14 difference there? The speed in which I could reload and 15 Α. just do similar drills that we do with our M4s and stuff. 16 We were just having the agents mimic that. 17 18 Q. And that was because of the pistol grip, right? That's what -- yeah. I found that to be more 19 Α. similar to my M4 which I've used for many years, so it 20 just seemed more natural. 21 Okay. So between Rifle A and Rifle B, when you 22 Q. 2.3 did a side-by-side comparison, you weren't really looking for accuracy because you were at short distances, right? 24

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But -- so accuracy was really -- couldn't be

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distinguished at that...

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- A. Yeah. At that short range, seven yards, it's not going to make a difference.
- Q. So on what do you base your opinion that the features on Rifle B increase accuracy on a rifle?
- A. So I was in a -- I was in a scenario which I didn't have people shooting back at me. I had -- I basically could go as fast as I felt comfortable going. I was at my own pace, in other words. So if I'm going to be in a stressful situation trying to shoot, reload, shoot again, and repeat that cycle as long as I needed to, Rifle B would be my choice. I might be 10 percent more effective because especially in low light with the flash suppressor change. And when I say effective, I mean quicker and potentially more accurate.

Another factor with Rifle B -- it wouldn't come to play with a 50- to 100-yard or longer -- but if I'm up close, say seven yards, I could probably even fire this thing with no stock, meaning it's been folded to collapse it down, and I could still probably hit the target with all my rounds, and just coming up like this without actually a brace or a sling on there.

I'm going to -- I may lose a little bit of accuracy there, but the -- the difference being is I would be sort of simulating coming out from maybe -- I

don't know -- a trench coat or some other -- maybe out of a bag, and I didn't see the need at that point to flip the stock out. I just wanted to start shooting. The concealability factor there would override the accuracy at a close range.

Does that make sense?

- Q. Yeah. I believe so. It makes sense. I don't know if it was completely responsive to my question about why you think the features -- or what you base your opinion that the features make Rifle B more accurate than Rifle A, because that is your opinion in your report, correct?
 - A. Right.

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- Q. So I'm just wondering, do you -- do you base that opinion that Rifle B is going to be more accurate than Rifle A on just your personal preference for these features or on testing that you've seen? That's what I'm trying to get at.
- A. I would say, like, the only time I've done that side by side with weapons similar to Rifle A and Rifle B would be that one time. I've fired a weapon like Rifle A a few other times, but we didn't have the Rifle B clone out there, and it was sufficient. I was able to hit, you know, things on target, but I just felt like I was more -- when the stock would be extended, I was more

comfortable shooting Rifle B. And if I had to shoot for some kind of a score between the two and a timed score, I think I'm going to do better with Rifle B.

- Q. Okay. How much better, do you think?
- A. Perhaps 10 percent. Something like that. Each of these features maybe is going to give you a few maybe percentage points of improvement. Small little things. The professional or semipro shooters out there, they do all kinds of things to their guns, whether it be handgun or long gun, from grip wraps so they get a perfect grip and different, you know, carvings on the wood stocks and all this other stuff.

So little ergonomic differences make a difference if you're really into having a high score if it's a, you know, paper target scenario where you're shooting metal plates and, you know, things like that at a competition.

- Q. And accuracy is a good thing, right?
- 19 A. Yes.

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- Q. You train to be accurate, right?
- A. Yeah. You want to have the highest score possible if you're shooting for a qualification, for example.
- Q. And that's because -- well, also, you want to hit your target in the real world if you need to, right?

- A. Uh-huh. Same thing would apply.
 - Q. And we would want somebody who is shooting somebody in self-defense to hit their target and not miss and hit something else, right?
 - A. Legitimate --
 - Q. Yeah, we're assuming legitimate.
 - A. Yes.

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- Q. Yes. Bad guys coming down the hallway with the knife in hand. You want the homeowner to put two in his chest and not two over his shoulder into the neighbor, right?
- A. Yeah. You want responsible gun owners to -- and/or law enforcement, if that's what's going on in the shooting, to hit what they're shooting at and not have rounds flying around.
- Q. And control of the firearm assists with being accurate, right?
- A. I believe so.
 - Q. So you want a gun that fits well, right?
- A. Yes.
 - Q. That's crucial for proper firearm -- safe firearm use, right?
- A. Depending on how your -- what your needs are, you can get away with certain things that you -- some people have multiple weapons, and they're all slightly

1 LCM -- LCMs that are usually used in rifles when you were giving these numbers? 2 3 Α. For the most part, yeah. That's why I put "some I didn't say all. 4 LCMs." Fair enough. So how many hundred-round LCMs 5 Ο. 6 have you come across in your career? Quite a few coming back from Reno. Α. Ο. Yeah. Α. There were -- sometimes the people would buy 9 10 multiple of those, and they were usually gang members. 11 They would have ammo that would match. Sometimes we got 12 guns that matched. Sometimes we got -- they were in the 13 Sometimes we would get guns subsequent with a 14 search warrant that matched the weapon -- or sorry, matched the ammo and the magazines they were buying out 15 of state. So that -- those are some definite scenarios. 16 17 We've also recovered them during APPS 18 investigations, and the people were obviously acquiring them either as parts kits when that was still a thing or 19 they got them from out of state and smuggled them in. 20 Moving to paragraph 34 of your report. 21 Okay. You state, "Assault rifles as defined in Penal Code 22 Section 30515 are often used with rifle rounds that are 2.3 associated with increased lethality." 24 25 Did I quote you accurately?

A. Yes.

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- Q. What does "increased lethality" mean?
- A. So the United States Military has adopted, generally, for the most part, two rounds that they're consistently using in a lot of the weapon system. The 5.56 and the 7.62x51 round, those two calibers are found in a lot of AR-15, Springfield M1A, which are still used in the military now.

These rounds were created for mainly military use, and there's sort of a civilianized version of both of these rounds which would be the .223 for the 5.56 military round and then the .308 round which is a sort of civilianized version of the 7.62x51. There are other cartridges out there, but those are the easiest to...

- Q. You're saying that those cartridges have increased lethality because they're used by the military?
- A. Well, the military would not, let's say, use something that they felt was inadequate to arm their soldiers with. They go through lots of testing on which rounds will be accurate. Weapons -- sorry. Not weapons. But ammunition that will do the job at a certain distance because certain fire fights happen at certain distances.

So they factor all those things in when they choose a particular round to issue to the military members.

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- Q. Is the job of a soldier necessarily to be lethal in shooting somebody?
- A. No. Not necessarily. Sometimes the job is to wound as many of the enemy as you can because you actually sometimes tie up more of the opponent's forces. If it's large-scale military actions, arguably if you can wound 100, it's better than killing 50.
- Q. And are you aware that militaries are restricted on what ammunition they can use by The Hague Convention?
- A. I was thinking Geneva Convention, but Hague sounds right.
 - Q. Is it? It could be. Some European convention.
- A. Correct. My understanding, there are restrictions on those. But the rounds themselves, I think one of the general sort of key factors is I believe they have to be full-metal jackets, and it can't necessarily be, like, a hollow point, which is okay for civilian use.
- Q. It is the Geneva Convention. You just jogged my memory.
 - A. All right. There you go.
 - Q. You got me. I owe you. Okay.
- So then can you really say that those cartridges have increased lethality just because military use them?

 Based on what we just went through, that they're not

1 I definitely don't want to sort of trivialize that.

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He -- he set himself up for success. I'll put it that way. And very little things that he did was going to hurt his quest for infamy.

That's about all I think I have as far as the -- the list of shootings there, Sean.

- Q. So would it be fair to say, Mr. Graham, that you would not be able to definitively say that any of the features in Penal Code Section 30515 that define a rifle as assault weapon contributed to the number of victims in any of the shootings that you've identified in paragraph 40 of your report?
- A. I would say -- I guess between all these different shootings, it's too hard for me to generalize and say if a particular weapon or shooter was aided by a particular feature on their weapons.
- Q. Well, let me ask you: Is there any shooting on that list where you can say definitively that you know or believe that the features made a difference based on specific facts? Not just the general, like you said, with the -- with the Stockton shooting. You know, the pistol grip potentially could have helped him. Granted, it could have. It may have, may not have made a difference.

What I'm asking is, can you definitively say in

any of these whether the features made a difference?

A. Because I wasn't the overall investigating officer on any one of these, I have -- I have a hard time picking out a particular feature that would have aided the shooter. But, in general, if their weapons did have one or more of those features, it probably did help them in some level.

The Topete case at the top of page 12, I testified in that case for the Yolo DA's office, and I fired the murder weapon at the request of the DA's office and saw the magazine and whatnot. So that was an AR-15-style weapon that was used to kill the deputy.

- Q. Granted, and -- assault weapons were used in each of these shootings, right?
 - A. Yes.

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- Q. My question is: Is there anything in any of these cases that you can point to that would definitively say that had the shooters used Rifle A, that they wouldn't have inflicted the identical casualty rate?
- A. I don't know that I can say that either way.

 The -- in all these cases, they used assault weapons. I

 -- typically, when I hear about a scenario like this

 where it's cops getting killed, sometimes there's assault

 weapons. Sometimes it's a handgun. Sometimes the

 officer was disarmed and killed with his own handgun,

1 unfortunately. But there are more and more of these anti-law-enforcement shootings using assault weapons now, 2 and there are a lot more of these mass shootings which 3 involve multiple victims that are happening, it appears, 4 just with a lot greater frequency that are using these 5 weapons that if they were weapons that were found in 6 California, we would call them an assault weapon. 7 they're in Louisiana or Texas, they don't call them 8 assault weapons there. They're just weapons in those, 9 10 you know, states. So it's your understanding that there's an 11 12 increase in mass shooting incidents? 13 Α. It's a perceived increase on my part. 14 Q. You haven't done any research or studies to confirm whether there is an increase or not? 15 I don't have time for that. 16 Α. 17 Q. I hear you. 18 (Pause on the record.) BY MR. BRADY: 19 And so would it be fair to say also that you 20 wouldn't know whether more mass shootings are perpetrated 21 with non-assault weapons versus assault weapons? 22 2.3 Α. My perception is -- I don't know if it's an equal number, but the ones where there's many 24 25 casualties -- I'll say five or more people, let's say --

typically, there's an assault weapon or something we would call an assault weapon in California -- that's been involved. There are a few instances where a handgun maybe with a large-capacity magazine is involved.

There was a recent shooting in Thousand Oaks.

That individual had, I believe, one handgun with multiple large-cap mags, and he shot people there. And I think the Gabby Giffords shooting, that was a Glock with a large-capacity magazine. Yeah. During his mag exchange, that's when the crowd sort of jumped him. Grabbed it.

- Q. So mass shooting with non-assault weapons happen, right?
 - A. They do.

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- Q. And it's your perception that more mass shootings occur with assault weapons than non-assault weapons, though?
- A. I would say that at least that maybe the media is picking up on it more and publicizing it. Maybe it's always been happening, but it seems to me that -- because I pay attention to this stuff, but like I said, I don't do formal studies. I'm not a researcher on, like, a scientific level. But in the course of my career, it seems like it's happening more often, and probably at least 50/50 if it's an assault weapon or not.
 - Q. Understood. So moving to page 13 of your

1 The title, "Assault Rifles are Suitable for Law Enforcement Use." 2 Α. Yes. So assault rifles have a legitimate use, then; 4 Q. is that fair to say? 5 So in California, there's been a carve-out in 6 the Penal Code by the legislature to allow law 7 enforcement agencies and the sworn members of certain law 8 enforcement agencies to purchase and register them if --9 10 if they've had to make sort of a personal purchase of 11 Some agencies will just issue the weapons out. 12 Some agencies don't have the money to do that, so the 13 individual police officers or deputies can make a 14 purchase with agency letterhead. But the policy choice to allow that exception 15 for police officers to acquire assault rifles for duty 16 17 use suggests that those rifles have a useful, legitimate 18 law enforcement purpose; is that fair to say? Α. 19 Sure. Yeah. And that is because they are effective for 20 Ο. defending against criminals; is that fair to say? 21 Α. Yes. 22 2.3 Ο. And while, granted, police officers come into

contact with criminals, as an individual, I'd have much more -- much more common daily rate than would your

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normal, everyday citizen. When a citizen does face a criminal, it is the same criminal as those that law enforcement face; isn't that fair to say?

MR. CHANG: Objection. Vague.

2.3

THE WITNESS: There might be certain scenarios that a civilian might encounter a person with a weapon or some other threatening object.

An extreme example might be like some kind of a home invasion whether it be they meant to go to that house and try to rob them because there's a marijuana grow in that house or maybe it's a mistaken identity. They thought that was the marijuana grow's house, but it's actually next door. Things like that can sort of happen where there's a group of individuals that try to take over a house. But for the most part, law enforcement is in a unique spot with sometimes daily contact with armed criminals. Some of these armed criminals have acquired -- through usually illegitimate methods -- handguns, shotguns, rifles, assault rifles, etcetera.

The average citizen probably is not going to go through life having a criminal point of weapon at them.

It does happen, but -- excuse me -- law enforcement is much more likely, in my opinion, to encounter armed resistance or gunfire.

2.3

you can just walk in and buy a traditional AR-15 like the one in the exhibit earlier when we were dealing with all the measurements. That's just normal in some states.

- Q. But even that the federal law was the reason people had -- had or did not have certain features was to comply with the law, right? It wasn't because of practicality; is that fair to say?
 - A. Right. It was a compliance thing.
- Q. So but for the law, there would be no practical reason for somebody to remove the features that California identifies in 30515 from an AR-platform, rifle, right?
- A. Not the average citizen. You might have somebody that's a -- maybe a shooter and they shoot a particular weapon in different competitions and perhaps a weapon would have to be configured a certain way to get into a certain class, but that would be a really extreme scenario.
- Q. Got it. And the same with fixing a magazine, right? There would be no practical reason to fix a magazine on an AR-platform rifle if it came with a detachable magazine, right?
- A. Generally, yeah. That's not a common practice,

 I believe, outside of California. Maybe some of the

 other states they're restricted.

Q. As far as rimfire AR-platform rifles, how prevalent are those, in your experience?

2.3

- A. I would say -- let's say our department seizes

 1,000 ARs in a year. I would say 50 to 100 of those

 might be .22 ARs of some kind. The rest would be

 centerfire variant. And I'm speaking about full, working

 weapons. I'm not talking about lower receivers and

 anything -- anything that's not functional.
- Q. We'll talk about lower receivers in a second.

 But as far as fully operational configured .22 rimfire rifles, so you're -- in your experience, if what you see in your line of work is reflective of the broader trend of AR ownership, you would say that the rimfire variant of an AR-platform rifle is five-ish, ten-ish percent?
- A. Possibly 5 to 10 percent. I -- I've never poked around and inside the AFS or DROS systems to study up on that.
- Q. Would you be able to determine that from AFS or at least a better number?
- A. I couldn't do it. We might have to ask a programmer to dive into something like write code. I don't know that our systems are that capable as they sit there.
- Q. So speaking of lower receivers, those can be sold bare, stripped, right, just the receiver?

1 Α. Yes. And that is a common practice, right? 2 Q. Α. Yes. And they are probably sold by the tens of 4 Q. thousands in California prior to the latest ban? 5 That's fair. 6 Α. Yeah. And would you say the most common configuration 7 Q. of those lowers is into a -- a semiautomatic centerfire 8 rifle? 9 10 Α. If they ever get built up, the most common, I guess, build would be probably semiauto centerfire. 11 likely 5.56 would be the -- if I had to pick one caliber 12 13 cartridge, that would probably be the most common. 14 Q. If they ever get built up. Does that mean you have experience that lots of people don't build them up? 15 Yeah. They'll lose interest. They'll go 16 17 through life changes. Divorce. 18 Q. Get yelled at by their wife? Sometimes. Yeah, that happens. 19 Α. Just saying I heard it happen before. 20 Q. Right. Agreed. Agreed. 21 Α. 22 And there are also unfinished lower receivers Q. 2.3 called 80 percenters, correct? Unfinished receivers is a very common 24 Α. Yeah. 25 thing in California since about the early part of 2013.

Q. Yeah. Sure. Let's leave the magazine out.

Just the rifle. If you put that product on it and it requires that you pop the upper off the lower in order to pop out the magazine, then you don't have to register that rifle, right?

A. Correct.

2.3

- Q. How quick can you change -- how quickly can you change a magazine with one of those products that require you to disassemble the action?
- A. So there's different versions of it. There are some that have a captive magazine in there, so you actually have to top load. That's -- that scenario is going to be much slower to do a reload. Obviously you have to put between one -- one and ten rounds in there, close it back up, put the pin in, charge the handle up, and then you can fire.

There are versions of a fixed mag out there that the rear take down pin -- they've got almost like a lobster claw scenario where you just hit these paddles, the lobster claws will retract, the weapon will hinge up, and they've even built in sort of like an auto drop feature into the mag well. So as soon as that -- it senses that there's no spring tension right over there near the mag well, it drops the mag regardless if you want it to or not. There's all these little variants

that have sprung up since then.

So it could be -- I don't know -- five seconds, you know, on some of them, and some of them would be much longer.

- Q. Have you shot a rifle with that feature on it? With the -- with the rear take down pin that allows you to remove the magazine?
 - A. One, I think.
- Q. Okay. Have you shot an AR-platform rifle with a bullet button?
 - A. Yes.
 - Q. And have you changed magazines on both rifles?
- 13 A. Yes.

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- Q. Can you say which one was faster?
- A. Personally, I was slower with the fixed mag version than I was with the bullet button version, and I -- when I was experimenting with the various bullet button tools that were out there, some of them -- those were even faster than others. So just like in the bullet button side of things, there are faster variants. And just like in the fixed magazine conversation, there are faster versions. And some accessories you can buy will speed up your reload, and people are coming out with those now.
 - Q. How much of a difference between the bullet

1 button and the rear take down pin for you are we talking about? 2 Three to five seconds, maybe. If I really get 3 Α. after it and practice, that might be the difference. 4 So three- to five-second difference? 5 Ο. Possibly. For me with my experience and with 6 Α. 7 the weapons that I've experimented with. Okay. And is my understanding correct that if 8 0. you -- like we discussed earlier, if you simply remove 9 10 the upper from the lower and leave it in that state, then you do not have to register it as an assault weapon as 11 12 long as you do not reassemble it? 13 Α. That's correct. 14 Are you aware of any notice that owners of Category 4 assault weapons were given to reregister their 15 rifles as assault weapons when SB880 passed? 16 17 MR. CHANG: Objection. Vague as to 18 "reregister." BY MR. BRADY: 19 Okay. Let me strike reregister. To register. 20 Ο. Let me clarify the -- the law here, right? 21 22 When people purchase their Category 4 assault 2.3 weapons, they were not assault weapons, right? 24 Α. Right. 25 Q. And so they were not -- if they were prior to Page 190

2014, they did not have to be registered, right?

- A. We did not have data in the system on their ownership, meaning a DROS entry, because we weren't allowed to keep it.
- Q. Okay. So regardless of when somebody bought a Cat 4 assault weapon during the period that it was lawful, they did not have to -- they had to go and register -- take an affirmative step to register it under SB880 with the California Department of Justice, right?
 - A. Yes.

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- Q. And so they had to know -- in order to do that, they had to know that they had to do that, right?
 - A. Yes.
- Q. Are you aware of any notice that owners of those rifles were given to go and register their Category 4 assault weapons under SB880?
- A. I believe I'll know of some, but I may not know all that the department took. That was something that our program site did, which, again, is not my function.

I'm aware that the department updated our website, which amongst all of the Attorney General's web pages, it gets either the No. 1 or the No. 2 number of hits annually. Sometimes it's Megan's Law, or it's that, the firearms page. So that page was updated to reflect sort of a notice to owners of these weapons. "Hey. Go

there's any training standards here in California or elsewhere that are similar to what either members of the military or members of law enforcement have to do to maintain proficiency with these things.

Q. So is it fair to say that you do not disagree with Mr. Boone's opinion that AR-platform rifles are good weapons for self-defense; you take issue that you have to have a certain level of training for it to be a good home defense weapon.

Is that fair to say?

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- A. Any weapon would be better off in the hands of a trained user. Could it be the most appropriate weapon in some scenarios? Maybe. In all scenarios? Probably not.
- Q. Does Mr. Boone opine that it is the best home defense weapon in all scenarios in his report to your recollection?
- A. The way I took his report, it was sort of a blanket approval for -- regardless if they lived in a homeless encampment or they lived in a cabin on top of a hill miles from anybody else. It sort of seemed like a blanket, in a sense, approval from him solely because, well, FBI uses it, so everybody else should be able to use it for the same purposes. But there's a lot of different reasons an AR-15 might be used by law enforcement or the military than the average citizen as

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we discussed earlier. The average citizen is not going to encounter armed criminals as often as law enforcement does day-to-day.

- Q. So if I'm hearing you right, an AR-platform rifle can be good for home defense but is not necessarily in all situations?
- A. Right. Absent appropriate training or absent -if you're at the ATM getting money out, it's probably
 inappropriate to have an AR-15 around yourself. If
 you're -- if you have a concealed weapons permit and you
 have a handgun, that's probably the most appropriate
 weapon for that specific type of self-defense.

If you're living in a rural environment and you might have large animals, you might find a rifle of some use. That's potentially more appropriate for that setting. If you're in an apartment building or close proximity to other houses and you shoot and let some rounds off and they get -- either go through the person, they can continue on and hurt neighbors, etcetera.

Q. I am putting in front of you Exhibit 13 which has been previously marked as such, and it is a series of slides prepared by the ATF.

Have you seen this document before?

- A. I don't believe so.
- Q. So in responding to Mr. Boone's report, which he

1 referenced this ATF report in, you did not look at the report that he relied on? 2 MR. CHANG: Objection. Mischaracterizes the 3 That's not what he relied on. That's not what 4 Mr. Boone relied on. 5 MR. BRADY: The ATF document is not what 6 Mr. Boone relied on? 7 MR. CHANG: The test that Mr. Graham is 8 referring to -- and I'm assuming you're talking about 9 10 paragraph 7 of Mr. Graham's rebuttal report -- Mr. Boone did not rely on that particular set of slides for the 11 12 portion of the -- of Mr. Boone's report that Mr. Graham 13 was rebutting in paragraph 7. If you want to provide 14 Mr. Graham a copy of Mr. Boone's report, you may get more specific answers. 15 BY MR. BRADY: 16 17 Okay. So in paragraph 6 of your rebuttal Ο. report, you object to Mr. Boone's opinion that handgun 18 rounds underperform regardless of circumstance; is that 19 20 right? Α. 21 Yes. And what is your issue with that? With his 22 Q. 2.3 opinion on it? 24 MR. CHANG: Go ahead. If you need to see a copy 25 of Mr. Boone's report --

reduced? Let's say in another hypothetical, two				
shooters, one with Rifle A, one with Rifle B, and they're				
both asked to shoot as quickly as they can at a specific				
target. Would the shooter holding Rifle B with the				
pistol grip be more or less likely to be accurate than				
the shooter holding Rifle A?				
MR. BRADY: Objection. I'm going to make an				
objection to all this line of questioning on the record,				
Peter, because I've been trying to drop hints that this				
line of questioning is inappropriate, but you didn't want				
to take me up on it. We're not here to redepose Mr.				
Graham. He has provided answers to virtually all of				
these questions. You may not have liked the answers.				
You're welcome to take those answers in briefing from his				
deposition transcript and explain whether he what he				
said was or was not how you interpret it. But to				
redepose Mr. Graham is simply not appropriate.				
MR. CHANG: You may answer.				
THE WITNESS: I'm going to can she read the				
question back? With all that, I lost track.				
MR. CHANG: Yes.				
(Whereupon the record was read back.)				
MR. BRADY: Objection. Incomplete hypothetical.				
Calls for speculation. Vague. Confusing.				
THE WITNESS: So I can say that I'm likely going				
Page 219				

1 to be more -- more accurate with Rifle B. The average shooter -- I don't know the answer to every shooter out 2 there in the world, but I believe I would be more 3 accurate with this Rifle B because it's most closely in characteristics to my duty weapon. Duty long gun. 5 BY MR. CHANG: 6 You were previously asked whether you can Q. definitively say -- and this was within the context of 8 discussing paragraph 40 -- the incidents you listed in 9 10 paragraph 40. 11 You were previously asked whether you can definitively say whether the shootings listed in 12 13 paragraph 40, whether the fact that -- whether you can 14 definitively say that the fact they used an AR-15 type of weapon did not contribute to the -- the -- the outcome of 15 those shootings. 16 17 In your expert opinion, is it more likely than 18 not that the fact that these shooters used an AR-15 type of weapons with, you know -- with the features, if they 19 used the features -- in your expert opinion, is it more 20 likely than not that the fact that they used those 21 assault rifles contributed to the -- the lethality or the 22

MR. BRADY: Objection. Incomplete hypothetical. Calls for speculation. Vague. Confusing.

damage that was done by those shooters?

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1
               THE WITNESS:
                             Assuming these weapons had a
     pistol grip and one or more of the other features or just
 2
     a different feature, the pistol grip, in my experience,
 3
     aids me in being more accurate, quicker to reload,
 4
 5
     etcetera. I would think these shooters would have the
     same benefit from a pistol grip if there was a reloading
 6
 7
     that happened during their particular shootings.
     reloads probably happened slightly faster than a weapon
 8
     without a pistol grip.
 9
10
              MR. CHANG: Okay. Thank you, Mr. Graham.
     That's all I have.
11
12
               COURT REPORTER: Counsel, would you like a
13
     transcript?
14
              MR. BRADY: Yes, please.
              MR. CHANG: Yes.
15
16
                 (Deposition concluded at 5:57 p.m.)
17
                               --000--
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1	I, the undersigned, a Certified Shorthand			
2	Reporter of the State of California do hereby certify:			
3	That the foregoing proceedings were taken before me at			
4	the time and place herein set forth; that any witnesses			
5	in the foregoing proceedings, prior to testifying, were			
6	duly sworn; that a verbatim record of the proceedings was			
7	made by me using machine shorthand which was thereafter			
8	transcribed under my direction; that the foregoing			
9	transcript is an accurate transcription thereof.			
10	I further certify I am neither financially			
11	interested in the action nor a relative or employee of			
12	any attorney or any of the parties.			
13	IN WITNESS WHEREOF, I have this date subscribed			
14	my name.			
15				
16	Dated: January 11, 2019			
17				
18	V-110 0 11			
19	Kaitlyn B. Houston			
	KAITLYN B. HOUSTON			
20	CSR No. 14170			
21				
22				
23				
24				
25				
	Page 223			

Exhibit 11

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1
                 IN THE UNTIED STATES DISTRICT COURT
 2
               FOR THE SOUTHERN DISTRICT OF CALIFORNIA
 3
 4
 5
       STEVEN RUPP; et all,
                 Plaintiff,
 6
 7
                                     ) No. 8:17-cv-00746-JLS-JDE
            vs.
 8
      XAVIER BECERRA, in his
      official capacity as Attorney)
 9
      General of the State of
       California et al.,
10
                 Defendants.
11
12
13
14
                   DEPOSITION OF MICHAEL MERSEREAU
15
                         Long Beach, California
16
                      Tuesday, December 4, 2018
17
                                Volume I
18
19
20
21
22
      Reported by:
      KATY BONNETT
23
      CSR No. 13315
24
      Job No. 3135706
25
      PAGES 1 - 142
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1
                 IN THE UNTIED STATES DISTRICT COURT
 2
               FOR THE SOUTHERN DISTRICT OF CALIFORNIA
 3
 4
 5
      STEVEN RUPP; et all,
                 Plaintiff,
 6
 7
                                     ) No. 8:17-cv-00746-JLS-JDE
           vs.
 8
      XAVIER BECERRA, in his
      official capacity as Attorney)
 9
      General of the State of
      California et al.,
10
                 Defendants.
11
12
13
              Deposition of MICHAEL MERSEREAU, Volume I, taken
14
      on behalf of Plaintiff, at 180 East Ocean Boulevard,
15
16
      Suite 200, Long Beach, California, beginning at 1:12
      p.m. and ending at 6:05 p.m. on Tuesday,
17
      December 4, 2018, before KATY BONNETT, Certified
18
      Shorthand Reporter No. 13315.
19
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1
     APPEARANCES:
2
     For Plaintiff:
           MICHEL & ASSOCIATES PC
4
           BY: SEAN A. BRADY
           BY: MATTHEW D. CUBEIRO
6
           Attorneys at Law
           180 East Ocean Boulevard, Suite 200
8
9
           Long Beach, California 90802
           (562) 216-4444
10
11
           sbrady@michellawyers.com
12
     For Defendants:
13
           STATE OF CALIFORNIA
14
15
           DEPARTMENT OF JUSTICE
16
           BY: PETER H. CHANG
17
           Attorney at Law
18
           455 Golden Gate Avenue, Suite 11000
19
           San Francisco, California 94102-7004
           (415) 510-3776
2 0
21
          peter.chang@doj.ca.gov
22
23
24
25
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1	NI .	IDEX
2		
3	WITNESS	EXAMINATION
4	MICHAEL MERSEREAU	
5	Volume I	
6		
7	BY MR	R. BRADY 5
8	BY MR	C. CHANG 133
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		raye 4

1		EXHIBITS	
2			
3	NUMBER	DESCRIPTION	PAGE
4	Exhibit 1	Expert Report and Declaration of	7
5		Detective Michael Mersereau	
6			
7	Exhibit 2	California Penal Code Section 30510	18
8			
9	Exhibit 3	ATF Data Analysis of 233 Caliber	100
10		Ammunition	
11			
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			Page 5

1	Long Beach, California, Tuesday, December 4, 2018				
2	1:12 p.m.				
3					
4	MICHAEL MERSEREAU,				
5	having been administered an oath, was examined and				
6	testified as follows:				
7					
8	EXAMINATION				
9	BY MR. BRADY:				
10	Q Good morning. Can you state your full name for				
11	the record, please.				
12	A Michael Mersereau. That's M-e-r-s-e-r-e-a-u.				
13	Q And, Mr. Mersereau, you are here today for your				
14	deposition in the matter of Rupp, R-u-p-p, versus				
15	Becerra; is that correct?				
16	A Yes.				
17	Q And you are here as a designated expert witness				
18	on behalf of the California Attorney General's Office in				
19	this matter; is that correct?				
20	A Yes.				
21	Q Have you ever had your deposition taken before?				
22	A Yes.				
23	Q How many times?				
24	A Maybe three, four.				
25	Q How long ago was the last time you had your				
	Page 6				

1 Α That's one way to view it, yes. The reason I'm asking you about this is, I simply 2 0 want to clarify whether you are including the SKS with a 3 detachable magazine in your description of assault 4 rifles in your report. 5 To the extent that I'm only discussing Cat 3 6 7 rifles by generic feature, and to the extent that, as I said, all the other named rifles, in fact, have 8 features, yes. 9 10 So would it be fair to say you're limiting your analysis here to Cat 3 rifles and Cat 1 rifles, those on 11 12 -- listed out on Penal Code Section 30510, that have the 13 features of Cat 3 rifles; is that fair to say? 14 I think what I'm -- the point I'm trying to make is that all those Cat 1 and Cat 2 rifles with the 15 exception of SKS are, in fact, also Category 3 rifles. 16 17 I believe --Q 18 And as I pointed out, the SKS is the exception to 19 that pattern. Correct. So all I'm trying to determine is 20 whether that -- so you're not considering the SKS with a 21 detachable magazine in your analysis here; is that 22 2.3 correct? To the extent that I'm focused on 30515 as 24

Page 31

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opposed to 30510, yes.

1 0 Okay. So it's your -- is it fair to say that your general premise is that a semiautomatic centerfire 2 rifle with the features, is a bigger threat to public 3 safety than a rifle without the -- the semiautomatic 4 centerfire rifle without features; is that your basic 5 6 premise? А Yes. And so an SKS rifle with a detachable magazine, does not have those features; is that correct? 9 10 Α That's correct. So is it your opinion that a Cat 3 rifle with the 11 12 features poses a more serious threat to public safety 13 than does an SKS rifle with a detachable magazine that 14 does not have the features? Both Cat 1, Cat 2 and Cat 3 with the features 15 poses more of a threat than a semiautomatic rifle with a 16 17 non-fixed magazine does. 18 0 And why is that? It's the degree of control that the -- the pistol 19 grips and the thumbhole stock provide to the shooter, 20 allowing them to fire more rounds more rapidly with 21 22 greater accuracy than your garden variety rifle. 2.3 0 So then is it your opinion that the operator of a 24 firearm having more control over the firearm is a bad 25 thing?

1 Α The -- it's a very bad thing if it's in the hands of somebody who wants to use it in a unlawful way, as we 2 see with all the mass shootings that involve AR15s. 3 What about in the hands of a good guy, is control 4 Q a good thing or bad thing? 5 6 MR. CHANG: Objection. Vague and ambiguous as to 7 good guy. BY MR. BRADY: 8 A cop? 9 Q 10 Police officers are not allowed to carry patrol 11 rifles without extensive training and constant 12 retraining in the use of those weapons platforms. 13 highly unlikely that a civilian is going to have that degree of training, and is going to continuously renew 14 their training on that platform. And thus, when you 15 place a -- a rifle that -- that fires a round that's 16 17 particularly devastating and allows them to do it with 18 great rapidity, it definitely makes the public less safe and police officers less safe. 19 I understand that's your position. 20 21 Α Yeah. But that wasn't the question I asked. 22 0 2.3 asking about whether control of a firearm is a good thing or bad thing, regardless of what the firearm is. 24

Isn't it a good thing for somebody to have control over

25

1	a firearm that they are using?		
2	MR. CHANG: Objection. Vague and ambiguous.		
3	Are we still talking about the cop or someone		
4	else?		
5	BY MR. BRADY:		
6	Q Is there any reason that a person who is properly		
7	using a firearm should have less control over that		
8	firearm, is there any benefit?		
9	A I think		
10	MR. CHANG: Objection. Vague and ambiguous.		
11	THE WITNESS: Control is a good thing, but it all		
12	comes down to how that firearm is being used. In some		
13	instances that control just leads to more death and		
L 4	destruction.		
15	BY MR. BRADY:		
16	Q But when you choose a firearm for your own use,		
17	you would choose one that you control well; is that		
18	would that be fair to say?		
19	A Yes.		
20	Q Would you ever choose a firearm that you felt did		
21	not fit you well?		
22	A I'd choose a firearm specifically as a tool for		
23	circumstances that I believe I may encounter.		
24	Q Have you ever encountered circumstances where you		
25	had to use your firearm, discharge your firearm?		
	Page 34		

1	А	Yes.
2	Q	How many times?
3	А	Once.
4	Q	When was that?
5	А	In 2014.
6	Q	Can you describe the circumstances?
7	A	I was attacked off duty by a gun-welding gang
8	member,	, and I discharged my handgun twice at the
9	individ	dual, knocking him down to the ground and causing
10	him to	drop his weapon.
11	Q	I assume you had a pistol?
12	А	I did.
13	Q	A semiautomatic pistol?
14	А	Yes.
15	Q	Does that semiautomatic pistol shoot at a
16	differe	ent rate than an assault rifle?
17	А	I've never studied that.
18	Q	Fair enough. But, generally, does a not
19	countir	ng for nanoseconds or splitting hairs with slow
20	motion	cameras, but generally, is it fair to say that a
21	semiaut	comatic firearm can be fired at the same rate as
22	any oth	ner semiautomatic firearm?
23	А	For any given shooter and whatever their skill
24	levels	are, I imagine they're pretty comparable.
25	Q	Can you recall how quickly you discharged two
		Page 35

1 measured it. Would it -- would it alleviate your 2 0 Okay. concerns about the concealability of an AR15 with a 3 adjustable stock, if it could not be shortened less than 4 30 inches? 5 That's nice. 6 Α Via the adjustable stock? Q Any shortening -- the ability to an individual to Α shortened the length of any long gun, makes it more 9 10 concealable. And concealability is a concern. 11 Are you --12 So I wouldn't say that even if it was not down to Α 13 26, I wouldn't still be concerned. 14 Are you aware of any instances where a criminal concealed an AR15 with an adjustable stock in order to 15 gain entry to where they committed their crime? 16 17 I don't recall any instances. А 18 If it is the case, and remember this is a hypothetical, I'm not suggesting that this is the case. 19 But if it were the case that an adjustable stock 20 generally only changes the length of the rifle 3 to 4 21 22 inches, and the rifle remains in the 30-ish inch range, 2.3 is that going to be a significant difference in its concealability, 3 to 4 inches? 24 25 MR. CHANG: I'm going to object. Page 50

foundation, incomplete hypothetical. 1 MR. BRADY: Good objection. 2 THE WITNESS: To me, yes, that would be 3 significant. Any reduction in the length increases the 4 concealability. I have arrested gang members with 5 28-inch or longer shotguns stuffed down their pants and 6 7 concealed with a jacket. So, yeah, any shortening of a qun makes it more concealable, and concealability is a 8 concern. 9 10 BY MR. BRADY: 11 It's a concern in the abstract, though, right? 12 Because you're not aware of any specific instances where 13 somebody used the shortening of an AR via a telescoping 14 stock to conceal it and gain entry; is that correct? Well, as you said, this is a hypothetical, and 15 I've already stated I don't recollect an instance that I 16 17 know of where somebody took a collapsable stock gun and concealed it. 18 19 Wouldn't a guitar case serve the same purpose 20 as -- in order to conceal an AR15 of any length? MR. CHANG: Same objection. Incomplete 21 hypothetical. 22 THE WITNESS: I think there's a difference in 2.3 terms of accessibility of a firearm to the individual. 24 If it's concealed under your jacket or down your pants, 25 Page 51

1 you have more rapid access to the firearm than you would 2 having to put down a -- the case, unsnap it and pull it 3 out. BY MR. BRADY: 4 But with an adjustable stock, they're going to 5 have to manipulate -- take time to manipulate the stock 6 7 to put it in the ideal position, right? MR. CHANG: Objection. Incomplete, assumes facts 8 not in evidence. 9 10 BY MR. BRADY: 11 Well, let me ask you this. Your concern is 12 that -- correct me if I'm wrong -- the bad guy shortens 13 the stock as much as possible to make it as concealable 14 as possible to gain entry undetected, then deploy that firearm, put it in the length of stock that the 15 person -- the bad quy wants it to be at. Is that what 16 17 your concern is generally? 18 Well, you're making an assumption that the Α 19 optimum length for that particular shooter, that the stock isn't already in that position, and that that 20 position is shorter than full extension of the stock. 21 22 And I'm not saying that there -- it's the only 2.3 way to conceal a firearm. To me, that doesn't matter. It is a way to shorten the length, and thus make it more 24

Page 52

25

concealable.

Q On what do you base your statement that mass shooters don't have deliberate targets?

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A I'm not saying they don't have deliberate targets. I'm saying that in a number of shootings, Vegas being the most recent example of that, is that he didn't need -- he equipped his AR15s with bump stocks, which mimic the rate of fire of some machine guns, which allowed him to put many more rounds down range in a given amount of time. But he wouldn't have been concerned about accuracy, because what he was firing at was a huge mass of people, not at individual targets.

Q So then the features in that situation made no different in the Vegas shooting; is that correct?

A Well, if he had put a bump stock on a Mini-14 and tried to do that, there's degrees of control. And he might have been shooting at the sky as the burst of gunfire raised the barrel of his gun upwards, which is typical of machine guns and rapid fire.

And if he had it equipped -- you know, unless he had it -- equipped his firearms, and I don't know that he did, but with a hybrid muzzle rate flash suppressor, which would have been an attempt to regain and retain some control over that weapon. But in his case, he didn't need accuracy. He just needed to hit the broad side of a barn, essentially.

1 And so it's your opinion that the features played a role in that case, because he was able to just keep 2 the muzzle down on the crowd? 3 He was able to control the firearm better than 4 Α without the pistol grip, and thus keep his targets in --5 aligned with his firearm. 6 You don't think that he could have inflicted the 7 same amount of harm without a pistol grip? Is that your 8 opinion? 9 10 Α Yes. 11 And that's solely based on that he was able to 12 keep the firearm more controlled? 13 Α Yeah. His -- his greater control of the firearm 14 through the use of features --Was that --15 0 -- typically the -- the pistol grip. 16 17 Was that in any of the reports that you read Q 18 about the shooting that you indicated in your report? Α 19 Yes. It mentioned the pistol grip playing a role in 20 21 that shooting? I'm don't -- I'm not saying it mentioned it. I'm 22 Α 2.3 aware, I've seen photographs from the scene, and his weapons were equipped with pistol grips. 24 That wasn't my question, though. My question was 25 Page 65

1 did the report reference whether the pistol grip made a difference in the amount of victims he was able to make. 2 I think I just said no, it didn't. This is my 3 opinion having seen the photographs that show that his 4 weapons were equipped with pistol grips, that that would 5 have afforded him -- based on my experience with pistol 6 grip weapons -- to better control his weapon when he was 7 in this extremely rapid fire simulation of a machine qun 8 scenario. 9 10 So if he had a machine qun, let's say a featureless machine gun, a Mini-14, fully automatic, he 11 12 would not have been able to sustain the amount of injury 13 that he did? Is that your opinion? 14 I believe that it would have been less, because he would have lacked as much control over that firearm. 15 Have you ever shot a machine gun that did not 16 have a pistol grip? 17 18 I don't think so, no. Α So you don't have any personal experience with 19 how a featureless machine gun would operate? 20 fair to say? 21 That's fair to say. It's -- but I would also say 22 Α 2.3 that I have experience with featureless semiautomatic rifles as well as semiautomatic and fully automatic 24 rifles that have pistol grips. And I know what a fully 25

2.3

auto AK47 does. It wants to climb to the sky. And it's that pistol grip, primarily, that allows you to stay on target.

The military doesn't quip its soldiers with featureless rifles. There's a reason that they have pistol grips on their rifles. There's a reason the police department, even if they use the Mini-14, they -- which some agencies do, they equip those with alternative stocks that have pistol grips on them. And it's all about being -- the controllability of the firearm.

And the police and the military are all about being effective with those firearms in putting down the threat. And they wouldn't bother with pistol grips if that didn't enhance their ability to stop the threat.

Q So if we were to concede that a pistol grip makes a firearm more controllable, do you have any -- have you formed any opinions to what extent the pistol grip enhanced controllability?

A You mean have I quantified it?

Q Yes. So in other words, obviously, there's no metric to say, yeah, it's 3 inches' different. But my question is, even assuming that a pistol grip does make a rifle more controllable, does it make that big of a difference such that the Vegas shooter would not have

1 been able to do exactly what he did without a pistol 2 grip? As I said, I believe the pistol grip allowed him 3 to inflict more damage on that crowd. I can't quantify 4 And, again, it's going to depend on the shooter and 5 the scenario to what degree it's going to make a 6 difference. 7 All right. So we're still talking about pistol 8 grips and how they increase -- whether they mechanically 9 10 increase the rate of fire, whether they affect a rifle's 11 capacity for firepower. Does a pistol grip affect a 12 rifle's capacity for firepower? 13 I don't know what you mean by that statement, 14 "capacity." What if I told you that the California Penal Code 15 uses the term "capacity" for firepower, would you 16 17 recognize that term? 18 Again, I don't know what you mean by capacity. 19 So you've never seen the term "capacity" for 20 firepower? I wouldn't say that. 21 Α Have you seen the term "capacity" for firepower? 22 Q 2.3 Α I may have. I don't recall. But you don't have any understanding for what 24 that term means as you sit here today? 25 Page 68

1 Α I don't know what you mean. I mean as used in the California Penal Code --2 Q Well --Α -- and the Assault Weapon Control Act. 4 I think it's referring to the ability of the --5 Α of the shooter to do more damage with the firearm than 6 if it weren't similarly configured. 7 That's your interpretation of capacity for 8 0 firepower, ability to do more damage? 9 10 Α Yes. And so with that understanding in mind, do you 11 think a rifle -- a pistol grip affects a rifle's 12 13 capacity for firepower? 14 Α Absolutely. Okay. And that is because, as you've indicated, 15 it gives the shooter more contro, is that correct, and 16 makes them more accurate? 17 18 It allows them to fire more rapidly accurately. Α 19 Got it. Does a pistol grip affect a rifle's 20 ammunition capacity? 21 Α No. Okay. Let's go back to -- okay. Going back to 22 Q 2.3 your report about your role at the LAPD Gun Unit, in paragraph 3 you indicate, "I have seized or participated 24 in the seizure of hundreds of assault rifles." 25 Page 69

2.3

A Well, the context of these tables is the assertion that we have a lot of gun violence in the city of Los Angeles, and we have a lot of firearms in the city of Los Angeles, including assault weapons and machine guns. Those seem to be the relevant issues, assault weapons in particular, to your lawsuit.

And in demonstrating -- trying to demonstrate that some numbers of assault weapons and machine guns, that it seemed logical to accumulate those statistics as well, simply to make the point that -- that gun violence is a problem in the -- in the city, and assault weapons and machine guns are a problem in the city.

Q Okay. But the reason I'm asking is it says that you provided these statistics about assault weapons and machine guns because these guns typically use large-capacity magazines.

A Because the detachable or non-fixed magazine is part of the equation in terms of lethality of these firearms. It's not the sole -- and I can anticipate that you're going to point out a Mini-14 can accept a large-capacity magazine. That's absolutely true. All these features and characteristics that we're discussing today have to be taken as a whole, not -- not piecemeal. And that's what I base my opinions about the lethality of these weapons on.

1 You don't think that the ammunition a rifle uses 2 is -- is more relevant to its lethality than the features? 3 MR. CHANG: Objection. Argumentative. 4 THE WITNESS: I think that if you want to open up 5 that can of worms, so are -- semiautomatic firearms, in 6 7 general, are more lethal and have more lethality than a revolver. A rifle round has more lethality than a 8 handqun. I would rather be shot with a 9-millimeter 9 10 than with a 223. BY MR. BRADY: 11 12 Q Why is that? 13 Because my understanding, based on my research, Α 14 is that the 223 is a particular -- is meant for the sole purpose -- was invented, was designed by the military 15 for the sole purpose of killing human beings. 16 17 And it -- studies have shown that -- that 223, 18 556, 762, that they do extensive damage compared to -much more extensive damage and life-threatening injuries 19 20 as opposed to a handgun round, the velocities, the masses, the bullets, et cetera. 21 22 And I'm not a ballistics expert, but I think that 2.3 research would support that -- that rifle ammunition is more lethal given -- given a -- where the shot placement 24 25 is, than a handgun round.

1 0 Coming out of a rifle or just generally? if -- is -- would it be fair to say that a round coming 2 out of a rifle is going to be at a higher velocity than 3 a round coming out of a handgun, generally? 4 Α Generally speaking, yes. 5 So it's not really unique to the 223 or the 762, 6 that that have -- that they're being fired at high 7 velocity, right? 8 I don't -- I'm sorry, I don't --9 10 MR. CHANG: Go ahead. I'm just going to say --I'm just making an objection here. This is beyond the 11 12 scope of his report, and he said he's not an expert on 13 ballistics. If you want to pursue the line of 14 questioning, you can go ahead, but I think at some point we should take it -- take it back. 15 MR. BRADY: Noted. 16 17 So, for example, you said you looked at studies, Q but you have no ballistics background, as you previously 18 testified to, correct? 19 20 Α Correct. So you were just reading the study, just as if 21 somebody else who was familiar with firearms would read 22 2.3 the study, right? Anybody who was curious, including your own 24 ballistics expert's report. 25

1 We'll get to that in a minute. And were those studies specifically looking at 223 and 556 rounds, 2 specifically about, you know, depicting those rounds, or 3 were they comparing them to various rifle rounds? 4 I think they were mostly focused on the round 5 itself. 6 7 0 Okay. So there was no comparison of lethality of different rifle cartridges? Is that fair to say? Α And I'm not making a distinction between 9 10 rifle rounds. I'm making a distinction between rifle 11 rounds and handgun rounds. 12 Got it. Q 13 And, of course, there's a lot of variabilities 14 that go into making that assessment, including shot placement. But I think it's a general consensus that a 15 rifle round would deliver a greater kinetic energy to 16 17 its target than a handgun round. And I know that my 18 vest will not stop a 223. It will not stop a 762 x 39. 19 It will stop a 9-millimeter or a 45, typical handgun 20 rounds. 21 Does a pistol grip have any impact on the velocity at which the round comes out of the rifle? 22 2.3 А No. Does a flash suppressor have any impact on the 24 velocity at which the round comes out of the rifle? 25

1 would present a greater threat to public safety. that's a hypothetical. That's not what we're dealing 2 with here. 3 BY MR. BRADY: 4 I'm just trying to figure out a way to 5 Agreed. isolate which -- which item, with respect to firearms, 6 is more problematic as far as lethality. Is it the 7 8 magazine capacity, or is it the controllability and accuracy of the rifle? And I think, correct me if I'm 9 10 wrong, my understanding of your opinion is that the 11 increased amount of ammunition would be the bigger 12 problem. Is that fair to say? 13 I think the two biggest threats to public safety 14 are semiauto combined with detachable magazines, particularly large-capacity magazines. 15 But the assault weapon law doesn't account for --16 17 it doesn't restrict that combination, correct? 18 Α I understand that. But you're opening up the can of worms of public safety, and I think any reasonable 19 discussion has to look at the semiautomatic function as 20 well. 21 Like I said before, it's a combination of factors 22 2.3 that make assault weapons more lethal, more dangerous to public safety. And you can't separate the semiautomatic 24 25 from the detachable magazine as well as the features

1 that provide the shooter with greater control. Correct me if I'm wrong, but what I hear you 2 saying is that semiautomatic center-fire rifles with 3 detachable magazines are problematic in and of 4 themselves, despite the features. 5 6 Α Yes. 7 And the features are just simply icing on the Q cake as far as making them that much more lethal? 8 MR. CHANG: Objection. 9 10 BY MR. BRADY: Is that you're -- is that, generally, what you're 11 12 saying? 13 MR. CHANG: Mischaracterizes the expert's 14 testimony. MR. BRADY: I'm asking what his testimony is. 15 THE WITNESS: No. It's not icing on the cake. 16 17 It's very significant. If you take a semiautomatic 18 rifle capable of accepting a detachable magazine, and you add those features, it makes it even more lethal for 19 all the reasons that we've been discussing for the last 20 several hours. 21 MR. BRADY: Does anybody need a break? 22 2.3 MR. CHANG: I could use a good break. MR. BRADY: Yeah. Let's go off the record a 24 25 second. Page 91

1 (Recess.) MR. BRADY: Back on the record. 2 In your report on page 10, you state that -- at line 9, "The purpose of deploying a rifle as opposed to 4 a handqun should be based on the fact that the target is 5 beyond the reasonable effective range of a handgun." 6 7 Did I accurately quote you? I'll check the context of that. Well, is there any context in which that 9 10 statement would not be accurate or would not reflect your opinion? 11 12 It's just that the context was that I was Α No. 13 talking about how the LAPD deploys a rifle. I should 14 have put that paragraph or that sentence before my statement about the purpose. 15 Then let's talk about that before we get into the 16 17 purpose. How do you know how the LAPD deploys these 18 rifles if you yourself do not carry one and haven't had the training to carry one? 19 Because the department issues special orders 20 describing the appropriate circumstances in which rifles 21 should be deployed, how they should be carried in the 22 2.3 car, et cetera, et cetera. And do you know --24 25 Those are -- those are disseminated among Α Page 92

1 everybody, not just the rifle cadre. And you reviewed those? 2 Α Yes. And you can recall that some of the instances in 4 Q which deploying a rifle is appropriate? 5 6 Α Yes. Q And can you name some of those? Α Again, I think I've listed them here, that basically a -- the police department doesn't view rifles 9 10 as self-defense weapons. Firearms that are used by our agency are tools to address certain circumstances. 11 12 That's why you don't see officers walking around with 13 AR15s slung over their shoulders when they're writing a 14 traffic ticket. Our handguns are defensive weapons. 15 They're meant for that sudden unexpected circumstance in which 16 17 lethal force is necessary to address the threat. 18 Rifles, I would characterize, and I don't know that the 19 department would use this terminology, but they're more 20 of a offensive weapon in the sense that you generally deploy them when you're -- you know you're going to a 21 possible gunfight. 22 2.3 Q Does that -- is it fair to say, then --MR. CHANG: Objection. He was still -- could you 24 25 let him finish.

BY MR. BRADY:

Q I didn't realize. If you wanted to add to that,

go ahead.

- A I've lost the original question at this point.
- Q Okay. So I believe you ended the sentence -before I rudely interrupted, according to counsel, you
 were saying that when they know -- when officers know
 they're going into a potential gunfight, that they opt
 for the rifle rather than the pistol. Is that -- does
 that accurately reflect your testimony?

A Oh, up to that point. What I was going to continue saying is that the rifle is deployed in circumstances where the suspect is believed to have a position of advantage. Usually meaning the high ground, say a second-story window, or is it a barricaded armored position where handgun rounds won't penetrate, or individuals wearing a ballistic vest which will stop handgun rounds, but will not stop rifle rounds.

- Q So if none of those situations is present, is it your testimony that an officer will not deploy a rifle unless those conditions are present?
 - A Typically, no.

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- Q So do officers ever bring rifles with them when executing search warrants?
 - A We always do, but not every officer. We deploy

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one or two, depending on the circumstances. The people that we deal with, we often find them possessing ballistic vests, where, by definition, because we're the gun unit, we know that they possess firearms.

Again, we're on the offense. We're going to find, hunt down and deal with the suspect. That's not something civilians are supposed to be doing. They don't have the same need for the rifle that police officers do.

- Q Well, are police officers subject to the same laws for justified use of force as civilians?
 - A Generally speaking, I would say yes.
- Q So when you say on the offensive, you mean that they go towards a potential fight affirmatively, but they're not going to go use force in a way that would not be legal self-defense, is that accurate, or defense of another, defense of life?

MR. CHANG: Objection. Lacks foundation, vague and ambiguous.

THE WITNESS: The rifle is used for self-defense in the same sense that a soldier on a battlefield is using his rifle for self-defense. But it's not equivalent to the scenarios that civilians typically find themselves in or in scenarios that would be legally defensible for them. They can't go out and hunt people

1 down. BY MR. BRADY: 2 And police officers can? 3 А Yes. 4 Police officers can do clandestine raids and 5 shoot people who are unarmed like military soldiers 6 would? 7 Α That's not what I said. No. I can have your testimony read back. 9 10 We are tasked with pursuing suspects, engaging 11 By law the penal code authorizes us to do it 12 and the citizenry expects us to do that. Nobody is 13 authorized to run around -- any non-police officer is 14 authorized to run around the streets of Los Angeles or California or wherever, and hunt down people that they 15 think need to be dealt with, and -- and apply lethal 16 17 force to those people. 18 Defense in a civilian context is about the threat coming to you. The use of a rifle by a police officer 19 is in the context of the police officer going to deal 20 with the threat. 21 22 Understood. But -- and that's generally speaking 0 2.3 because -- are you familiar with the Southernland 24 Springs incident where the gentleman, Mr. Willeford, 25 engaged the shooter after he shot at the church in

1 Southernland Springs, Texas? 2 А I'm only concerned about California. Q Okay. But --I'm only addressing California. 4 Α Okay. Fair enough. But -- so civilians can go 5 0 6 on the so-called offensive in defense of life, can they 7 not? Α Certainly. Okay. And when either an officer or a civilian 9 Q 10 decides to go on the offensive, as you put it, they are still limited in discharging that firearm to the rules 11 of lawful use of force, which requires that they have 12 13 a -- that there be a threat to their life or the threat 14 of others, correct? 15 That's correct. А And that standard is the same for civilians and 16 law enforcement officers, correct? 17 18 Α Yes. 19 So while a police officer may be more likely to be put in that position, once put in that position, the 2.0 two are fairly identical with respect to self-defense 21 22 needs. Is that fair to say? 23 Α No. 24 Why not? Q 25 Α As I explained, we aren't put in that position Page 97

conducted, it's outside the scope of this expert's report.

THE WITNESS: I will say that what led me to that assumption is that I'm not completely unfamiliar with the issues of overpenetration. And the debate that I've seen generally talks about rifle versus handgun. So I may have erroneously leaped to the conclusion that 9-millimeter, 40 caliber Smith & Wesson, which are calibers that our department uses, was comparing the relative overpenetration issues of handguns of those calibers versus a rifle and 223.

Because, I mean, I think it's commonly misunderstood, you know, that -- the effective issue of overpenetration between handguns and rifles. But maybe they're debating whether those calibers shot out of a rifle are less or more than the 223 out of the rifle.

BY MR. BRADY:

Q Okay. Just to be clear, I didn't make any representations one way or the other. I was asking you how you understood it.

A Right.

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Q And your understanding was that the 9-millimeter and the 40 Smith & Wesson were handguns, and the 223s were rifles, correct?

A That's correct. And like I also said, I'm not a

1 ballistics expert. I read this with great interest, but I don't have the background to really --2 The basis for -- okay. The basis for showing you this report was your testimony that you weren't aware of 4 an agency choosing a rifle as the weapon of choice to 5 enter a home; is that correct? 6 7 MR. CHANG: Objection. Lacks foundation, 8 misstates witness's testimony. THE WITNESS: Well, there's absolutely nothing in 9 10 this report that's tells you what they were considering, other than a choice of rounds and a choice of rifle. 11 12 BY MR. BRADY: 13 And they found that a 223 round is less likely to 14 penetrate a common barrier than is a round coming out of -- a 9-millimeter 40 Smith & Wesson round coming out 15 of a handqun; is that correct? 16 17 Α Well --18 MR. CHANG: Objection. Lacks foundation. 19 THE WITNESS: Again -- again, I don't know if they're talking about a handgun or a rifle. 20 BY MR. BRADY: 21 22 Q Okay. 2.3 Either way it looks like 55-grain 223, which is, I believe, what our department uses, it's less likely to 24 penetrate beyond wall 7 than some of the other calibers. 25 Page 106

2.3

Whether they are fired out of a rifle or a handgun, I don't know.

Q So getting back to -- now that we have context, I believe, and if not, we'll develop context -- the original statement that I asked you about in your report, on page 10, line 9, "The purpose of deploying a rifle as opposed to a handgun should be based on the fact that the target is beyond the reasonable effective range of a handgun." Did I accurately quote you?

A Yes. And, by and large, that's true, because there's downsides to long guns in confined spaces. The barrel precedes the -- the individual carrying that rifle, and it runs the risk of a suspect reaching out and grabbing that barrel.

It also, in my opinion, requires you to expose yourself at a greater angle, and in -- in confined spaces it can be difficult to shoulder that weapon. You run more -- more risk of being obstructed with items.

I've seen officers have to, basically, sling their rifle or their shotgun and draw their pistol, because the confines were getting in the way of maneuvering with that long gun.

Q Okay. I understand all that, but -- and I understand that that might be a caveat to your statement, but your statement doesn't mention anything

about the things you just mentioned. It says, simply, that deploying a rifle as opposed to a handgun should be based on the fact that the target is beyond the reasonable effective range of a handgun.

A That is not -- that's out of context. You're not reading the additional information. I might -- I might not have articulated it clearly, but there are a number of conditions.

Q Okay. Well, let's focus on --

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A And -- and an important one is the body armor issue. If you go into a location, it would be nice to have a rifle -- and we usually never deploy more than one inside a structure -- to defeat that body armor, or to defeat that person that's up in the rafters, or to defeat that person that's behind an armored barricade.

Q It would be nice. I believe that. So does deploying a rifle have to do -- does the decision on whether to deploy a rifle have to do with the range at which you're engaging the bad guy?

A In some circumstances, it does.

Q Okay. So -- so -- and I'm not trying to put words in your mouth. So you would qualify your sentence here about that you should deploy a rifle as opposed to handgun only when the target is beyond the reasonable effective range of a handgun?

1 What I should have said was a -- one of the 2 purposes or a purpose, and then other considerations, which is what I went on to say. 3 4 So are there legitimate uses for a rifle within effective handgun range? 5 6 Α Yes. Okay. What is effective handgun range, by the 7 Q What would you say effective handqun range is? 8 way? Α I think if you get beyond 100 feet, you're 9 10 starting to get beyond most shooters' ability to hit their target. 11 And a rifle would not suffer from that same loss 12 0 of accuracy after 100 feet? 13 14 Α No. 15 0 So --16 Particularly given that rifles are typically Α 17 equipped with optics. Handguns are not. 18 So a rifle is generally more accurate than a 19 handgun? 2.0 MR. CHANG: Objection. Mischaracterizes the 21 witness's testimony. 22 THE WITNESS: It depends on the shooter's abilities, but also, it depends on the physical 23 circumstances. If you're at 150, 200 feet, you would 24 25 probably want a rifle to deal with the threat, a rifle Page 109

1 equipped with optics. But if you're a few feet away from the suspect, a rifle will work fine if you've 2 3 managed to maneuver your yourself in a position where you can react quickly. But a handqun will do the same 4 job, unless the person is wearing body armor. 5 BY MR. BRADY: 6 7 And your testimony is you have seen more Q criminals wearing body armor recently; is that true? 8 Α Not wearing it, in possession of it. 9 10 typically hit our locations in the early, early hours. 11 We do that for a reason. We do it to catch the suspects 12 asleep, catch -- it makes them less likely to be able to 13 think clearly, to armor up, to grab their rifle or 14 whatever and take us on. I mean, I think anybody can relate to that if they've been woken up in the middle of 15 the night by some sort of intrusion, pounding on your 16 17 door, whatever. 18 You say there's no -- on page 9, paragraph 23 of 19 your report you say there's no evidence that assault rifles are commonly used for self-defense. Do you see 20 21 that? 22 Α Yes. 2.3 Q Is that your opinion today? Α 24 Yes. 25 Q What do you mean by used?

1 First of all, one has to define what one means by self-defense. 2 What do you mean by self-defense in this 3 sentence? 4 As I -- as I said later on in that, I'm talking 5 6 about civilians. I'm talking about legally sanctioned self-defense, which typically requires the threat to be 7 immediate and proximate to the individual, as well as 8 circumstances that would justify lethal force versus 9 10 some other form of force. And that's not the typical 11 self-defense circumstances that -- that civilians 12 experience. 13 So my objection is with the word "commonly." I don't think it's commonly -- I don't think it's 14 commonly -- it's not unheard of, but it's not common. 15 Common is the use of handguns and shotguns. 16 17 I just want to get clarification on the word 18 "used" in that sentence. What do you mean by assault There's no evidence that assault rifles are 19 rifles? commonly used for self-defense? 20 Meaning that they're brandished or that they're 21 fired, whether at the suspect or as a warning shot or 22 2.3 whatever. Okay. And you're saying that -- do you have any 24 evidence that they are not common? Let me restate that. 25 Page 111

1 Do you have any evidence that assault rifles are not commonly used for self-defense in the way that you 2 just defined or used? 3 In the way that I define self-defense? 4 Α In the way you just defined "used." 5 0 I've done research, and I can't find any study 6 that provides a scientific study that shows that they 7 are commonly used. Basically, proponents of that idea 8 are forced to rely on anecdote, not some sort of 9 10 methodology, scientific investigation of that phenomenon. 11 12 Have you found -- have you found any scientific Q 13 methodical study that shows that they are not commonly 14 used? 15 Α No. That assault rifles are not commonly used for 16 17 self-defense? 18 That would be proving the negative, of course, Α 19 which you can't do. But the other aspect of it is I've 20 been doing this for over 23 years. I hear of instances. I also read newspapers, news reports, police reports. 21 talk to other officers. I talk to a whole slew of 22 people, and I am convinced that rifles are seldom used 2.3 in the circumstances of self-defense as I've described 24

them. It's a common -- most common is a handgun

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1 followed by shotguns. Just like I can say with confidence that 50-caliber rifles are not used commonly 2 in -- in self-defense scenarios faced by civilians, 3 typically faced by civilians. 4 And you based your opinion on the uncommon use of 5 assault rifles for self-defense on the anecdotes that 6 you just mentioned. Anything else, anything other than 7 the anecdotes? 8 Again, the lack of studies showing it, supporting 9 10 it, and my own personal exposure to reports of self-defense using handguns. 11 12 Does self- -- sorry. Do self-defense reports Q 13 usually talk about what type of firearm the victim 14 possessed? 15 Some of them do, yes. Is that -- is that often? Is that -- is that 16 usually the case, that the type of firearm that the 17 18 person defending themselves used is indicated in the 19 report? I think it is. I think that many of those 20

A I think it is. I think that many of those reports quote the victim, and the victim states, I grabbed my shotgun, I grabbed my handgun. I don't remember ever seeing one -- a report, directly, that I grabbed my assault rifle, I grabbed my AR15. I have seen them anecdotally reported secondhand by other

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1 parties, but not very many. How many self-defense reports have you evaluated 2 in that manner? 3 Again, I don't know. I couldn't even guess, and 4 Α I wouldn't want to guess. 5 6 I'm asking you --7 Α But like I said, I've been more aware maybe than -- and interested in that than your average citizen 8 because of the -- my line of work. And I've -- most of 9 10 this stuff is -- it's not coming out of scientific 11 studies. Again, it's coming out of articles, news 12 articles, TV reports and that sort of stuff that I've 13 encountered over the course of years. 14 And I firmly believe that my opinion here is accurate, that without being able to say what percentage 15 handquns are used, what percentage of shotquns are used, 16 17 what percentage of -- of AR15 or assault rifles are 18 used, it is not common. There's no supporting evidence 19 to support that statement that it's common. Is criminal use of assault rifles common? 20 0 21 Α It's getting more common. On what do you base that? 22 0 2.3 А The increase in the use of assault weapons in mass shootings. 24 How do you -- how do you know that there's been 25 Page 114

1 an increase in the use of assault weapons in mass 2 shootings? Again, it's readily available information out 3 there if you're interested in it. 4 Can you name a report or recall anything that you 5 6 read that suggested that? Α Not specifically. 0 Are you --But -- but I can tell you that -- that the 9 Α 10 Stoneman Douglas shooting was with an AR15. The Sandy Hook was with an AR15. The -- I believe the recent 11 12 shootings in the temple were with a AR15. The Pulse 13 nightclub mass shooting was with an AR15-type rifle. 14 And these are -- these are -- the use of assault rifles, the AR15s, is clearly accelerating. 15 clearly become the weapon of choice for mass shooters, 16 17 not that other weapons aren't used in some of the mass 18 shootings. 19 The guy in Texas that shot up the church, killed 20 20-some people, I mean, it just goes on and on. And I'm also aware of studies that show that the use of assault 21 weapons to murder police officers is on the rise. 22 2.3 has been increasing over the last eight to ten years. Are you aware of any reports that refute those 24 25 or -- let me strike that.

1 Are you aware of any reports taking the opposite view or taking issue with those reports that you cite 2 to? 3 That an AR15 wasn't used, a Bushmaster --4 Α 0 No. 5 6 Α -- an X15 wasn't used to murder those children in Sandy Hook? 7 No, that's not what I asked. Your statement was 8 that the use of assault rifles in these crimes is on the 9 10 rise, and you referenced reports to support your 11 assertion to that point. 12 My question is have you read any reports that say 13 otherwise, that say that those are wrong, or do you 14 think that is the undisputed view of things? I can't say that I've read reports that dispute 15 I've read opinions that dispute everything I'm 16 17 testifying to today. 18 What -- what have you read? 0 That this pump is commonly used. I see that 19 20 repeated, mostly by gun advocacy groups, including the NRA, saying that they're commonly used. So it's not 21 22 surprising to see that terminology in the plaintiff's 2.3 briefs, but I can't find support for that view. 24 Did you look for it? 25 Α Yes. Page 116

1 Did you read any of the other experts' reports, other of plaintiff's expert reports, other than 2 Mr. Boone's? 3 Α No. 4 But your statement that the use of assault 5 0 rifles in crime is on the rise is based on your 6 assumption that the reports you've read are accurate? 7 Is that fair to say? 8 9 Α Yes. 10 You haven't done any personal studies or 11 investigations to get to the bottom of it yourself? 12 that fair to say? No. Other than --13 Α 14 Q It is fair to say? 15 Α Yes. 16 Q Okay. 17 Other than researching it on the Internet, I'm Α 18 not in a position to conduct studies, scientific 19 studies. I am in a position to read news reports, to read firsthand accounts on the Internet. 20 So then is it fair to say that you have no 21 personal knowledge about whether assault-rifle crime is 22 2.3 on the increase or decrease? Α I think --24 25 MR. CHANG: Objection. Vague and ambiguous. Page 117

1 THE WITNESS: As I've stated, I consider that to be personal knowledge. 2 BY MR. BRADY: 3 But you're relying on the knowledge of others? 4 I would be relying on the knowledge of others who 5 had done a scientific report, and including your 6 expert -- ballistics expert here, I'm relying on his 7 That's -- you know, to me, that's personal 8 analysis. knowledge, having read this report. It makes it my 9 10 personal knowledge. The fact that I didn't do the research, irrelevant. 11 12 That would be your opinion too? Q 13 Α Yeah. 14 But do you have personal knowledge about crimes involving assault rifles that LAPD is tasked with? 15 I'm sorry, I don't understand. 16 17 Okay. Let me -- let me -- do you have any Q 18 personal knowledge about how common the use of assault rifles in crime is with respect to crimes falling under 19 the jurisdiction of the LAPD? 20 I seize assault weapons all the time, and they're 21 in substantial numbers, and those are criminal 22 2.3 possessions of assault weapons. Can we segregate mere possession as a 24 25 different sort of crime than the use of an assault Page 118

1 So without knowing how many rounds he fired, how do you know that he needed the increased ability to put 2 lots of rounds down range and on target? 3 Α I never said he needed them. I said it provided 4 him with the capacity. 5 But if he didn't need that, then it might not 6 have made a difference in the overall deadliness of the 7 shooting. Is that fair to say? 8 Α No. 9 10 MR. CHANG: Objection. Argumentative. I don't understand the value 11 THE WITNESS: No. 12 of talking about whether he needed them or not. He did what he did with the rifle that he came with. And, 13 14 again, the logical conclusion is that that rifle enhanced his capability to deliver more rounds down 15 range with more accuracy than had he been using a 16 17 different firearm. 18 BY MR. BRADY: Or it can be that he intended to shoot certain 19 20 victims at close range, chose these victims and chose an AR15 because of its, quote, cool factor, as you 21 previously indicated, and it didn't matter what rifle he 22 2.3 had, he was going to shoot the same amount of people. Isn't that a possibility? 24 25 MR. CHANG: Objection. Lacks foundation. Page 130

1 THE WITNESS: Yeah. Now, you're completely 2 asking me to speculate on your scenario, and I'm not 3 willing to do that. BY MR. BRADY: 4 Well, you've been willing to speculate as to 5 whether your general premise about the effectiveness of 6 7 assault weapons from mass shooters made a difference in the shooting despite knowing the details, so I thought 8 you would play along with a hypothetical that I posed, 9 10 but --11 MR. CHANG: Objection. Argumentative. 12 THE WITNESS: And, again, I don't consider my 13 opinions --14 MR. CHANG: There's no question, no pending 15 question. THE WITNESS: Okay. 16 17 BY MR. BRADY: 18 Do you know the details of the shooting at LAX in 0 19 paragraph 17, other than what's stated in the -- the 20 report? Α 21 No. Do you know the details of the San Bernardino 22 0 2.3 County shooting indicated in paragraph 18, other than what's provided in the report? 24 25 Α No. Page 131

1 Q All right. Let's take a five-minute break. I'm going to see 2 if I can get my guestions lined up so we can wrap it up. 3 Go off the record. 4 (Recess.) 5 (Mr. Cubeiro left the proceedings.) 6 MR. BRADY: Matt is leaving. He has a class. 7 All right. Back on the record. 8 9 On page 10 of your report, the last paragraph, 10 you state that "I do not believe, based on my training 11 and experience, that there are frequent occasions when a 12 member of the public would face threat by an armed 13 suspect wearing body armor or concealed behind a barrier 14 that would defeat handgun ammunition. Absent these factors, a handgun, shotgun or nonlethal options should 15 suffice in dealing with the vast majority of self-16 17 defence scenarios where force is legally justified." 18 Did I accurately quote you? Α 19 Yes. In your opinion, would a handgun, shotgun or 20 nonlethal option be sufficient in dealing with the vast 21 majority of scenarios that law enforcement officers 22 2.3 face? 24 Α Yes. 25 Do you have any personal knowledge about how many Q Page 132

1 officer-involved shootings LAPD has in a given year, where the officer shoots, hopefully? 2 I did, but I couldn't recall it today. So you wouldn't be able to estimate whether it's 4 Q dozens, scores, single digits, by the hundreds? I don't 5 want you to guess, so if you don't know. 6 Α I would be guessing. Okay. Are you familiar with an LAPD officer ever discharging an assault rifle in the line of duty? 9 10 I know it's happened. I couldn't tell you the incidents. 11 12 Q Would it be fair to say that it's relatively 13 rare? 14 Α Yeah. Okay. How did you become a witness, an expert 15 witness in this matter? 16 17 I was contacted by the Department of Justice, Α 18 Peter Chang -- or, actually, he contacted the department 19 and the department knows me as an expert on these 20 subjects, and they reached out to me and asked if I would be willing to work with Peter Chang on this. 21 So are you working on behalf of the LAPD in this 22 0 2.3 matter or are you working on your own? I'm being paid by the department, so I guess, in 24 some respects, I'm here as a employee of the LAPD. 25

1 Was that voluntary for you to take on this task 2 as an expert witness in this case, or were you ordered to by the LAPD? 3 It's volunteer. I could have refused. Α 4 MR. BRADY: All right. I think we are finished. 5 6 MR. CHANG: I do you have some matters on redirect. 7 MR. BRADY: Unless - oh, unless Peter wants to --9 10 Mr. Chang, feel free. 11 MR. CHANG: Okay. 12 EXAMINATION BY MR. CHANG: 13 14 So Detective Mersereau, earlier you said that you're not a ballistics expert. But you also stated 15 that you -- you know that your vest, your department-16 17 issue vest, would stop a 9-millimeter round but not a 223 rifle round. How do you know that? 18 Well, first and foremost, I know it because it 19 20 says it right on the vest. And we wear a vest that's pretty standard for most police departments. In fact, 21 it won't stop any rifle rounds. 22 2.3 Q Okay. Do you know one way or the other if it's LAPD's standard practice, if they receive someone 24 calling in a home break-in, whether it's LAPD's practice 25 Page 134

1 I, the undersigned, a Certified Shorthand 2 Reporter of the State of California, do hereby certify: 3 That the foregoing proceedings were taken before me at the time and place herein set forth; that 4 5 any witnesses in the foregoing proceedings, prior to testifying, were administered an oath; that a record of 6 7 the proceedings was made by me using machine shorthand which was thereafter transcribed under my direction; 8 9 that the foregoing transcript is a true record of the 10 testimony given. Further, that if the foregoing pertains to the original transcript of a deposition in a Federal Case, 11 before completion of the proceedings, review of the 12 13 transcript [] was [] was not requested. 14 I further certify I am neither financially 15 interested in the action nor a relative or employee 16 of any attorney or any party to this action. 17 IN WITNESS WHEREOF, I have this date subscribed my name. 18 19 Dated: December 19, 2018 20 2.1 22 23 24 KATY BONNETT 25 CSR No. 13315 Page 142