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5
6 STRENGTHENING OUR NATIONAL TRAUMA SYSTEM

7 TUESDAY, JULY 12, 2016

8 House of Representatives

9 Subcommittee on Health

10 Committee on Energy and Commerce

11 Washington, D.C.

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14
15 The subcommittee met, pursuant to call, at 10:00 a.m., in
16 Room 2322 Rayburn House Office Building, Hon. Joe Pitts [chairman
17 of the subcommittee] presiding.

18 Members present: Representatives Pitts, Guthrie, Shimkus,
19 Murphy, Burgess, Blackburn, Lance, Griffith, Bilirakis, Long,
20 Ellmers, Bucshon, Brooks, Collins, Upton (ex officio), Green,
21 Engel, Butterfield, Castor, Sarbanes, Matsui, Schrader, Kennedy,
22 Cardenas, and Pallone (ex officio).

23 Staff present: Rebecca Card, Assistant Press Secretary; Paul
24 Edattel, Chief Counsel, Health; Bob Mabry, Fellow, Health; Graham
25 Pittman, Legislative Clerk; Adrianna Simonelli, Professional

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1 Staff Member; Heidi Stirrup, Health Policy Coordinator; Sophie
2 Trainor, Policy Coordinator; Jeff Carroll, Minority Staff
3 Director; Waverly Gordon, Minority Professional Staff Member;
4 Tiffany Guarascio, Minority Deputy Staff Director and Chief
5 Health Advisor; Samantha Satchell, Minority Policy Analyst;
6 Kimberlee Trzeciak, Minority Health Policy Advisor; Megan Velez,
7 Minority FDA Detailee; and C.J. Young, Minority Press Secretary.

1 Mr. Pitts. The time of 10 o'clock having arrived, the
2 subcommittee will come to order. I ask unanimous consent to
3 recognize and allow our colleague, Representative Rick Hudson,
4 who's on the full committee, to waive onto the Health Subcommittee
5 for today's hearing. Without objection, so ordered.

6 I recognize myself for an opening statement. Today's
7 hearing is an important discussion that will examine the areas
8 where we can improve our national trauma system and the care
9 provided by emergency responders.

10 The recent events in Orlando, Paris and San Bernardino remind
11 us of the very real threat of mass casualty events that can produce
12 large numbers of traumatically injured casualties.

13 Terrorism, criminal violence and road traffic accidents all
14 produce traumatic injuries which is the leading cause of death
15 for those under age 46. Because it disproportionately affects
16 young people, trauma is the number-one cause of productive life
17 years lost, greater than cancer or heart disease.

18 A recent Institute of Medicine report released just last week
19 estimates that one in five trauma deaths may be preventable or,
20 in other words, about 30,000 people might be saved every year if
21 your nation's trauma system is better optimized today.

22 We'll hear from witnesses on ways to address our trauma and
23 emergency medical systems. First we will hear from three authors
24 of IOM report entitled "A National Trauma Care System Integrating
25 Military and Civilian Trauma Care to Achieve Zero Preventable

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1 Deaths After Injury."

2 They will discuss a number of recommendations included in
3 the report aimed at improving trauma care. Our other two
4 witnesses will discuss legislation introduced by Congressman
5 Richard Hudson designed to ensure our first responders have access
6 to critical medications needed to treat emergency conditions in
7 the field.

8 One of our main challenges in addressing emergency and trauma
9 care is leadership. Responsibility for planning, coordination,
10 communications and response are divided across multiple agencies
11 and jurisdictions.

12 The axiom when everyone is responsible no one is responsible
13 applies. Leadership at the federal level is required to achieve
14 coordination and ultimate accountability.

15 While strong national leadership is needed, we must also
16 bolster those on the front lines at the local level. Here we can
17 look to the military's incredible advances in trauma care over
18 more than a decade of war.

19 Lessons learned during war time often drive innovation in
20 civilian trauma care. This is not surprising, as many
21 experienced combat medical personnel often leave the military and
22 go into civilian practice during peace time. Outside of war our
23 military trauma teams have few opportunities to care for severely
24 injured patients at their base hospitals. The IOM proposes
25 integrating military trauma teams into busy civilian trauma

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1 centers in order to improve not only military trauma care but
2 civilian trauma care.

3 I look forward to the discussion and encourage the thoughtful
4 dialogue about these critical issues. I look forward to hearing
5 our witnesses today and yield the balance of my time to Dr.
6 Burgess.

7 Mr. Burgess. Thank you, Mr. Chairman. I appreciate your
8 yielding.

9 I'm glad we're doing this today. It's timely, given the
10 events of last Thursday and Friday. The nation was riveted upon
11 the emergency rooms at Parkland, at Baylor Hospital and the
12 country stands in awe of the service that was rendered to fallen
13 police officers during that sad interval in our nation's history.

14 I do want to recognize and thank Dr. Robert Mabry, the Health
15 Subcommittee's Robert Wood Johnson Fellow, for the work he has
16 done in this area and certainly for his service to the country.

17 As a lieutenant colonel in the Army and an emergency room
18 physician Dr. Mabry brought a lot of expertise to bear for this
19 subcommittee on this issue particularly.

20 Mr. Chairman, as you mentioned, we have recently received
21 the National Academy's report and it identifies a unique
22 opportunity to improve the state of trauma care for Americans at
23 home and in combat. A partnership between our military and
24 civilian health systems could bolster the availability of an
25 expert work force in two ways, first by integrating military

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1 providers into civilian systems and second, military providers
2 would be able to continue practicing and maintain their skill
3 levels between deployments.

4 The Military, Civilian and Mass Casualty Trauma Readiness
5 Partnership Act would facilitate this partnership through grant
6 program which would allow us to examine how federal support of
7 such partnerships could strengthen our trauma capabilities.

8 This bill has the potential to save American lives here at
9 home as well as abroad. Again, I want to thank all of our
10 witnesses for being here today. This is an important topic, one
11 that, again, unfortunately, because of recent events in Dallas,
12 Texas we've seen just how critical your service is to the country.

13 Mr. Chairman, I will yield back.

14 I yield to Mr. Hudson.

15 Mr. Hudson. I thank the gentleman and thank you, Mr.
16 Chairman, for holding this very important hearing and allowing
17 me to join in today.

18 Regarding our first panel, I know firsthand the experience
19 and expertise of our military trauma teams. So I want to thank
20 my colleagues, Dr. Burgess and Dr. Bob Mabry, Army physician,
21 along with the committee for their work and expertise on this
22 important legislation.

23 I am also excited to hear from our second panel today as this
24 is an issue I have personally been invested in for over a year.
25 I want to ask everyone to imagine for a moment that loved one

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1 has been injured or the excruciating pain with the responding EMS
2 personnel trained to treat them are helpless to do anything about
3 their pain. Under current law, this could become a reality.

4 Congressional action is needed immediately and that's why
5 I authored the bipartisan Protection Patients' Access to
6 Emergency Medications Act with my colleague, Mr. G. K.
7 Butterfield, to clarify existing law so EMS personnel can continue
8 to administer lifesaving medications to patients.

9 This is vital for our patients and EMS personnel in North
10 Carolina and across the United States. I want to thank you,
11 Chairman Pitts, for your leadership and holding this important
12 hearing.

13 I want to thank Mr. Butterfield for his partnership and I
14 want to underscore the importance of this being a bipartisan
15 measure. There's a lot of issues here that become very highly
16 partisanized. But this is one that doesn't have to be and it
17 hasn't been because of the strong work of Mr. Butterfield and
18 others working with me. And I want to thank all of my colleagues
19 for this opportunity today and look forward to working to move
20 this legislation into law.

21 Thank you, Mr. Chairman. I yield back.

22 Mr. Pitts. Chair thanks the gentleman. I now recognize the
23 ranking member of the subcommittee, Mr. Green, five minutes for
24 an opening statement.

25 Mr. Green. Thank you, Mr. Chairman. And we're here today

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1 to examine two distinct but important ideas. The first is H.R.
2 4365, the Protecting Patient Access to Emergency Medications Act
3 is authored by our colleagues on the committee, Representative
4 Butterfield and Hudson from North Carolina.

5 This legislation would clarify the oversight of care
6 provided by emergency medical services practitioners through
7 standing orders. Standing orders allow physicians and medical
8 directors to establish preset protocols for EMS practitioners to
9 follow when delivering emergency care on the ground.

10 They are especially important in the administration and
11 delivery of controlled substances in emergency situations when
12 time is of the essence.

13 The second proposal is a discussion draft to authorize a
14 tiered grant program to civilian trauma centers that are engaged
15 in military-civilian partnerships. This proposed bill will also
16 require a study on how trauma care is reimbursed.

17 Last month, the National Academies of Science, Engineering
18 and Medicine -- NASEM for short -- released a report entitled "A
19 National Trauma Care System Integrated Military and Civilian
20 System to achieve Zero Preventable Deaths After Injury."

21 Trauma injury is the leading cause of death of those under
22 age 46 and it is the third leading cause of death overall. Trauma
23 has definitive causes which establish method of treatment and
24 prevention.

25 Frequent forms of trauma include motor vehicle accidents,

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1 gunshot wounds and falls. Traumas also result with large-scale
2 manmade or natural disasters, too many of which we have seen
3 recently and will continue to experience regardless of the best
4 prevention efforts.

5 Survival among severely injured patients requires
6 specialist care delivered promptly and in a coordinated manner.
7 Care begins at the scene of injury, continues to the emergency
8 department and on to the hospital operating room and on to the
9 hospital operating room and intensive care unit.

10 This is true in both civilian and military context. Also
11 true is the optimal response and care depends on advanced
12 planning, preparation and coordination to produce smooth
13 transitions and the proper sequence of interventions. Trauma
14 care systems are the backbone of preparedness.

15 Unfortunately, despite clear evidence of its value in war
16 zones and here at home, one in seven Americans, 45 million people,
17 lack access within one hour, known as the golden hour, to a trauma
18 center able to treat their severe injuries.

19 The NACEM report states that the military has made
20 significant strides over the past decade in improving trauma care
21 based on lessons learned during wartime.

22 And Mr. Chairman, years ago when we were heavily involved
23 in Iraq and Afghanistan our committee, Health Subcommittee, went
24 to Baghdad, Balad and in Afghanistan to see the coordination
25 between what they do and the success they were having.

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1 And at one time in the Houston area we -- at our Level 1 trauma
2 centers at Memorial Hermann and Ben Taub they trained our military
3 physicians because on a Friday or Saturday night you would see
4 things in there that you would see in a war time.

5 But after Iraq and Afghanistan now we need to do -- work
6 together because I was so impressed. I would see a hurt soldier
7 come in and have the many disciplines working on that soldier at
8 very primitive conditions compared to what we have in our
9 communities.

10 But I think there's a lot we can learn from the military.
11 There are nearly 30,000 preventable fatalities for trauma injury
12 every year that could have been avoided if optimal care was
13 provided through coordinated trauma care's system.

14 The NACEM envisions a national trauma care system and allows
15 the continuous and seamless exchange of knowledge across military
16 and civilian health care sectors. This would better provide
17 optimal delivery of trauma care to save the lives of Americans
18 injured in the United States or on the battlefield.

19 Improving our national trauma care system is an issue that
20 I've championed for years with my colleague and fellow Texan,
21 Representative Mike Burgess. We worked to shore up our trauma
22 centers, expand access to care and improve the regionalization
23 of our nation's trauma systems.

24 On a bipartisan basis we worked to enact and sustain federal
25 trauma programs that enhance access to trauma care for all

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1 Americans. We currently have two bills to strengthen the future
2 availability of trauma care which the House of Representatives
3 passed nine months ago and are awaiting action in the Senate.

4 I am encouraged by this subcommittee's attention to such an
5 important and overlooked issue and appreciate our witnesses for
6 their thoughtful testimony today.

7 I look forward to hearing more about the proposed legislation
8 and our continued work to improve trauma care both for our men
9 and women in combat and civilians and veterans here at home.

10 We must ensure that the proper systems and sites of care are
11 in a place to provide timely lifesaving care to all injured
12 Americans. As we grapple with how to best support our men and
13 women in uniform and respond to tragedies at home we cannot assume
14 that trauma care will miraculously be there.

15 It's the responsibility of Congress to make certain that the
16 right care is available at the right time and we can make the most
17 impact over the difference between life and death.

18 And again, Mr. Chairman, I thank you for calling this
19 hearing. I yield back.

20 Mr. Pitts. Chair thanks the gentleman.

21 I'll now recognize the chair of the full committee, Mr.
22 Upton, five minutes for an opening statement.

23 Chairman Upton. Well, thank you, Mr. Chairman.

24 Trauma causes such tremendous economic and human costs in
25 Michigan and every state across the country. New National

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1 Academy of Medicine, NAM report, underscores that we need to do
2 more and this report cites nearly 30,000 preventable civilian
3 deaths per year due to trauma. Not overseas in distant war-torn
4 land but here at home in the U.S.

5 NAM points to a number gaps in our national trauma system,
6 including the inconsistency in trauma care quality over time and
7 in specific geographic areas.

8 They also found a diffusion of responsibility across
9 agencies of the government. Additionally, they found
10 significant gaps in our ability to exchange knowledge and best
11 practices, the result of which is significant variation in trauma
12 care deliver which in turn, of course, leads to unnecessary
13 suffering and lives lost.

14 The NAM report puts forth several recommendations on how to
15 move forward including improving the leadership of trauma care,
16 integrating military and civilian trauma data system best
17 practices and research, reducing regulatory barriers and, of
18 course, improving trauma care quality processes.

19 Today, we're going to hear from two emergency medical service
20 physician medical directors. The practice of medicine in a
21 pre-hospital environment is very unique and is a key part of our
22 health care system.

23 Our EMS folks, physicians, paramedics, other first
24 responders are the front line of our emergency medical and trauma
25 care system. They got to have the tools, training and support

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1 to rapidly stabilize and treat a variety of emergency conditions
2 24/7 in every community across the country.

3 These EMS physicians will discuss the implication of H.R.
4 4365, the Protecting Patient Access to Emergency Medications Act
5 of 2016 introduced by Mr. Hudson, to ensure first responders have
6 critical emergency medications needed to treat a variety of
7 emergency and life-threatening conditions.

8 I yield the balance of my time to Mrs. Blackburn.

9 Mrs. Blackburn. Thank you, Mr. Chairman. Welcome to our
10 witnesses. We are pleased that you are here.

11 I represent Fort Campbell and also right outside of my
12 district is the Vanderbilt University Medical Center and I want
13 to tell you I am so pleased that Mr. Hudson has brought the bill
14 forward and that we are having the hearing today and talking about
15 the report from the academies.

16 I think this is very appropriate for us to do. Taking down
17 the barriers between the military and civilian healthcare, the
18 exchange of information, looking for how best to make the
19 appropriate response is something that is timely.

20 I think that it is also needed and looking at the delivery
21 model and optimal delivery. Important for us to have this
22 discussion.

23 So Mr. Chairman, I thank you for the time and with that I
24 yield back.

25 Mr. Pitts. Chair thanks the gentlelady. I now recognize

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1 the ranking member of the full committee, Mr. Pallone, five
2 minutes for an opening statement.

3 Mr. Pallone. Thank you, Mr. Chairman.

4 Whether it's a gruesome sports injury or an injury from an
5 accident on the interstate or a gunshot wound, we depend on our
6 trauma care system to provide the services necessary to save lives
7 and prevent disability.

8 In the case of an emergency no one should be forced to wonder
9 whether quality services will be available and we're fortunate
10 to have access to some of the best trauma care in the world,
11 ensuring access to quality trauma care based on the best available
12 evidence.

13 However, there are gaps in our current system and
14 unfortunately sometimes the determination of whether a person
15 survives or dies depends on if the injury occurs near a good trauma
16 center and I think we'd all agree that this is unacceptable.

17 All of our trauma services should be world class and that's
18 why I'm eager to hear today about recommendations from the recent
19 report that aimed to strengthened our trauma systems to ensure
20 that patients get the services they need when a health emergency
21 arises.

22 In particular, one of the recommendations which is the
23 subject of draft legislation being examined today encourages the
24 development of military and civilian partnership by placing
25 military trauma teams and personnel in civilian trauma care

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1 centers and I look forward to hearing more from our witnesses about
2 the legislation's impact on our trauma care system.

3 In addition to ensuring the availability of trauma care
4 services we must also make certain that providers have the
5 flexibility they need under federal law to treat patients in
6 emergencies. Another topic of discussion today is H.R. 4365, the
7 Protecting Patient Access to Emergency Medications Act. This
8 bill would amend the Controlled Substances Act to clarify that
9 emergency service personnel can administer controlled substances
10 under a standing order from a physician, medical director who
11 oversees emergency care.

12 I understand this would codify what is current practice and
13 ensure that patients have ready access to important and often
14 lifesaving drugs in emergency situation.

15 This bill would also streamline the emergency medical
16 services registration process and would also hold the MS agencies
17 responsible for receiving, storing and tracking controlled
18 substances.

19 While I support the intent of this legislation I understand
20 the drug enforcement agency wasn't to ensure the proper safeguards
21 are in place under this framework to limit the potential for
22 diversion or misuse.

23 And so again, I look forward to hearing more from our
24 witnesses today about how EMS agencies can and will ensure a
25 appropriate regulatory safeguards are in place to prevent

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1 diversion of controlled substances and I look forward to
2 continuing to work with my colleagues and the sponsors, the DEA
3 and stakeholders, to address these issues.

4 Mr. Chairman, these are critically important issues. I'm
5 glad our committee continues its track record of working to
6 improve the public health care system to better serve our
7 communities and protect patients, and I yield the remainder of
8 my time to Mr. Butterfield.

9 Mr. Butterfield. Thank you very much, Mr. Pallone, for
10 yielding time and thank you, Mr. Chairman, for convening this
11 hearing today on strengthening our national trauma system.

12 This is a subject that we all care so deeply about and I
13 know our five witnesses today feel very strongly about this issue
14 and so thank you for the hearing and I thank the five of you for
15 your willingness to testify.

16 Mr. Chairman, trauma can occur in many forms from concussions
17 or burns to injuries on the athletic field or even highway
18 accidents. Pediatric trauma is the most frequent killer of
19 children in our country.

20 Trauma does not need to lead to death or even permanent
21 disability. By providing access to trauma care within what is
22 known as the golden hour or the time immediately following the
23 injury and I'm sure our guests will talk about that today, we can
24 dramatically reduce those threats.

25 Of approximately 1,200 hospitals in the country, only about

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1 one out of every five hospitals are designated for trauma. Even
2 fewer are equipped to handle the challenges of pediatric trauma
3 care.

4 And so in May, Congressman Richard Hudson, my dear friend
5 and colleague that usually sits on the other side of the aisle
6 but today he's on my side of the aisle -- I don't know if that's
7 an omen, Mr. Upton -- Mr. Upton has left. But thank you for
8 sitting with us today, Richard.

9 But in May, Richard and I launched the Pediatric Trauma
10 Caucus to work to ensure that the U.S. trauma care network has
11 the appropriately trained workforce, resources and
12 evidence-based practices to meet the challenges of pediatric
13 care. And so I'm pleased today that we are considering 4365.
14 This bipartisan bill clarifies existing law so that EMS personnel
15 under the supervision of a physician can administer lifesaving
16 medication to patients in their care.

17 This legislation ensures EMS personnel have the necessary
18 tools to help victims of traumatic events receive medically
19 appropriate treatments before arriving at the hospital.

20 In rural communities such as mine and congested urban areas
21 alike, such as Dr. Myers, hospitals and clinics can be difficult
22 to access and in many cases the administration of treatments can
23 prevent death or permanent disability.

24 So I thank you. I look forward to the hearing. I yield
25 back.

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1 Mr. Pitts. Chair thanks the gentleman. That concludes the
2 opening statements verbal. All written opening statements of
3 members will be made a part of the record.

4 I have a UC request. I'd like to submit the following
5 documents for the record. Statements from the American College
6 of Surgeons, America's Essential Hospitals and the American
7 Hospital Association.

8 Without objection, so ordered.

9 [The information follows:]

10
11 *****COMMITTEE INSERT 1*****

1 We have one panel of witnesses today. I'll introduce them
2 in the order of their presentation. We'll start with Ms. Jorie
3 Klein, director, trauma program, Rees-Jones Trauma Center at
4 Parkland.

5 Then Dr. David Marcozzi, University of Maryland, Department
6 of Emergency Medicine, Dr. Bill Schwab, professor of surgery, Penn
7 Presbyterian Medical Center, Dr. Craig Manifold, committee chair,
8 American College of Emergency Physicians. Finally, Dr. Brent
9 Myers, president elect of the National Association of EMS
10 Physicians.

11 Thank you for coming today. Your written testimony will be
12 placed in the record. You'll each be given five minutes to
13 summarize your testimony. And so at this time the chair
14 recognizes Ms. Klein five minutes for her summary.

1 ?STATEMENTS OF JORIE KLEIN, BSN, RN, DIRECTOR, TRAUMA PROGRAM,
2 REES-JONES TRAUMA CENTER AT PARKLAND; DAVID MARCOZZI, MD,
3 UNIVERSITY OF MARYLAND DEPARTMENT OF EMERGENCY MEDICINE; C.
4 WILLIAM SCHWAB, MD, FACS, PROFESSOR OF SURGERY, PENN PRESBYTERIAN
5 MEDICAL CENTER; CRAIG MANIFOLD, DO, FACEP, COMMITTEE CHAIR,
6 AMERICAN COLLEGE OF EMERGENCY PHYSICIANS; AND J. BRENT MYERS, MD,
7 MPH, FACEP, PRESIDENT-ELECT, NATIONAL ASSOCIATION OF EMS
8 PHYSICIANS

9 STATEMENT OF MS. KLEIN

10 Ms. Klein. Mr. Chair, Ranking Members Pallone and Member
11 Green, thank you very much for the opportunity to be here with
12 you. I am a trauma nurse. I am the director of the trauma program
13 at Parkland Hospital and I also am chair of the State Trauma
14 Systems Committee.

15 It is my privilege to participate in the National Academy
16 of Science Committee that has brought forward this report. I
17 would like to also recognize Dr. Burgess, who I have trained at
18 Parkland Hospital and is very familiar with our environment.

19 So when we talk about trauma we often talk about it as the
20 neglected disease and that is not a term that's new to us.
21 Actually, R.A. Cowley from the shock trauma center introduced that
22 term back in 1966.

23 The sad thing is that those terms and many of the things that
24 were pointed out in that report 50 years ago are still true today.
25 You heard about the stats. Many of you read them.

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1 I'll just give you some stats from my state. Our state
2 reported 121,000 injuries in our trauma registry last year. This
3 year so far from January my trauma center has evaluated 4,322
4 trauma patients. When we talk about those patients they all need
5 specific care -- quick response care.

6 So what we would like to do is have you consider our report,
7 look at the federal investment in trauma care. If you look at
8 the number of individuals that are dying from trauma care and you
9 look at the number of dollars that are appropriated for trauma
10 care, trauma advances, trauma research you will find that there
11 is a disparity there.

12 So, again, we're asking you to reconsider some of that or
13 help us move forward with that. The key concepts of the National
14 Academy Report, again our committee called for developing a
15 national trauma system and that national system includes
16 integration of the civilian as well as the military, which
17 includes all aspects from the prehospital to the acute care,
18 inside the hospital for stabilization as well as research in
19 prevent activities.

20 I'm here today also representing the Trauma Center
21 Association of America which strongly supports the bill that's
22 being produced -- the grant programs being developed that will
23 actually create an opportunity for military teams to be inside
24 the trauma centers. And, again, this could be very, very helpful.

25 Many of the trauma centers, again, are growing. Our trauma

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1 center last month had a 35 percent increase in our number of trauma
2 patients and, unfortunately, nothing else in the system increased
3 35 percent. I don't have 35 percent more nurses, dollars or
4 resources to manage those patients.

5 So some of the points, again, embedding the military teams
6 as they would be fully integrated into the team and they would
7 learn to work as a team.

8 If you don't know how to work as a team in trauma you set
9 the patients up for risk and that is one of the most critical things
10 that we see.

11 One of the other things that the report called for is a study.
12 If you look at the deaths that were produced from the reports from
13 the military as well as civilian, there are preventable deaths
14 and when we talked about preventable deaths we're talking about
15 after the injury occurred.

16 And so we would like to see research and funding to address
17 that and to create a nation that has zero preventable deaths.

18 Again, appropriate funding would help support that and a
19 national place to call home for trauma. We need a trauma center
20 cost study that includes an opportunity to look at different
21 billing systems.

22 The billing system that we currently have and things that
23 we can bill for trauma, for example, if the patient arrives by
24 ambulance you can bill for it.

25 If the patient is transferred you can bill your trauma

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1 activation fee. On Thursday night, several of those patients
2 arrive to our trauma center in the police car, which means we
3 cannot bill for some of the most critical patients that we have
4 cared for and that means the bill falls back to other resources.

5 So we must establish a national research action plan again
6 to look at these deaths, to look at our system and to create systems
7 that every echelon of care there's appropriate handoff and
8 knowledge and the receiving provider knows and is competent how
9 to manage a trauma patient.

10 So in conclusion, I would like to say thank you for the
11 opportunity to be here with you and, again, I would like to engage
12 any other further discussion that you might have regarding these
13 proposed bills.

14 Thank you.

15 [The statement of Ms. Klein follows:]

16
17 *****INSERT 2*****

1 Mr. Pitts. Chair thanks the gentlelady and now recognizes
2 Dr. Marcozzi five minutes for his summary.

1 ?STATEMENT OF DR. MARCOZZI

2
3 Dr. Marcozzi. Good morning, Chairman Pitts, Ranking Member
4 Green and members of the subcommittee.

5 I'm honored to have served on the committee that we're
6 discussing here to release the report on trauma care. The
7 committee is part of the National Academies of Sciences chartered
8 by the Congress in 1863 to advise the government on matters of
9 science technology. Thank you for your invitation to testify
10 today.

11 It was an honor to serve on this prestigious committee under
12 the leadership of Dr. Don Berwick. I want to begin my remarks
13 by pausing to remember those who lost their lives during the recent
14 tragedies in Dallas, in Orlando, and thank those who answered the
15 call to respond to those crises.

16 My sympathies go out to those affected by these and all
17 tragedies due to trauma. Additionally, I want to recognize a
18 legendary trauma surgeon and committee member from New Orleans,
19 Dr. Norm McSwain, who passed away during the drafting of our
20 report.

21 His death was a great loss. Finally, I want to thank the
22 sponsors of this work, the Department of Defense, the Department
23 of Homeland Security, importantly, for their -- for its supporting
24 a comprehensive deliverable aimed at improving our nation's
25 approach to trauma -- to trauma care.

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1 One could say I've worked on both sides of multiple aisles.
2 Within the legislative and executive branches of government,
3 under Republican and Democratic administrations as a policy maker
4 and practising physician and finally working within the military
5 and civilian sectors. It is these experiences that help shape
6 my remarks today.

7 Right now, regardless of time, age or payer, emergency and
8 trauma systems across our nation are diagnosing and treating those
9 who are ill, injured or depressed. Those two health delivery
10 systems are inextricably linked. That care has an impact on their
11 community and the populations they serve.

12 Appreciating this, I reflect on a prior hearing by the House
13 Oversight and Government Reform Committee on June 22nd, 2007.
14 This committee hearing was in response to a 2006 Institute of
15 Medicine report that released their reports on the state of our
16 nation's emergency care.

17 Dr. Schwab likely remembers that well as he was one of the
18 presenters there testifying that day. At that time, Ranking
19 Member Tom Davis commented, quote, "Emergency critically care
20 services are in critical condition." He went on. "Such a fragile
21 fragmented system holds virtually no surge capacity in the event
22 of a natural disaster or terrorist event."

23 Representative Cummings, who chaired that meeting, further
24 remarked, "after providing a thorough overview of the challenges
25 facing our nation's emergency care system, the time for action

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1 is long overdue."

2 Our nation's trauma care systems are a vital component of
3 both our nation's health delivery system and our nation's
4 resilience. As the leading cause of death under those of 46 --
5 at the age of 46, preventing injury is certainly an optimal
6 strategy. But unfortunately, people still fall or are involved
7 in motor vehicle accidents, get assaulted, are shot or are
8 stabbed.

9 In addition to those unfortunate daily occurrences of
10 traumatic injury, recent events and remarks by CA Director Brennan
11 and Secretary of Department of Homeland Security Johnson,
12 strongly compel us to assure that our nation's emergency and
13 trauma systems also stand at the ready for mass casualties.

14 Coining a phrase from a comprehensive federal guidance on
15 best -- how best to respond to terrorist bombings, a robust system
16 needs to be ready to respond in a moment's notice to injuries.

17 Simply, that system delivers optimal trauma care and lives
18 will be saved. Designing that system to achieve optimal outcomes
19 is also important economically as care to victims of trauma
20 totaled \$600 billion in 2013.

21 The title of a famous book, "Good to Great," allows me to
22 put in context advances in trauma care and highlight findings in
23 two recommendations that I'll discuss I hope you'll find germane
24 to our discussion today.

25 We are good in many aspects of trauma care but we aren't

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1 great. As an example identified by the committee on this
2 dichotomy was the finding that approximately a thousand service
3 members died of potentially survivable injuries from 2001 to 2011.
4 One thousand.

5 Here at home, nearly 150,000 trauma deaths occurred in 2014.
6 As many of 30,000 of those deaths were preventable. That's 80
7 deaths a day that potentially are survivable that we don't yet
8 act on.

9 First and foremost, we are good at leadership but we aren't
10 great. There are federal offices and programs that attempt to
11 address this issue. But those civilian entities have small staff
12 and little or no funding to influence and improve our nation's
13 emergency trauma systems.

14 Within the military, the joint trauma system's future
15 remains tenuous and it is not currently utilized across all
16 combatant commands. This is a glaring omission by the Department
17 of Defense.

18 In short, there is no single entity within entity within HHS
19 or DoD with the authority and accountability to guide the delivery
20 of optimal trauma care.

21 Prehospital care has achieved success due to tireless
22 champions for improving the care the lives that are saved when
23 we recall 911 due to paramedics, emergency technicians and
24 physicians.

25 Chief James Robinson, Lieutenant Colonel Bob Mabry, Captain

1 Frank Butler, Colonel Russ Kotwal are just four of those champions
2 that worked to shape the recommendations of this committee in
3 pre-hospital care.

4 We are good but we aren't great. EMS remains a patchwork
5 of symptoms, fragmented and largely isolated from health delivery
6 and health delivery reform efforts. Unfortunately, and as
7 dictated by Congress, prehospital care is considered only a
8 transport mechanism, not part of the health delivery mechanism
9 and apparatus of the nation.

10 As a result, we don't have a seamless construct that includes
11 medical care provided before you enter the doors of a hospital.
12 The report outlines recommendations on how to address this.

13 In conclusion, traumatic injury is nonpartisan and the
14 delivery of optimal trauma care is shared -- is a shared
15 responsibility by Democratic and Republican leadership alike.
16 Both sides of the aisle can and should support a system that
17 benefits service members sitting in harm's way as well as every
18 American.

19 The report on National Trauma Care System Integrating and
20 Military Civilian Systems to Achieve Zero Preventable Deaths
21 after Injury Presents a vision for national trauma care -- for
22 a national trauma care system with a bold aim of zero preventable
23 deaths after injury and minimal trauma-related disability.

24 The committee's work on this report serves as a dedication
25 to the lives cut short because of trauma whether on our streets,

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1 at a dance club, at a marathon, within our towns, our schools,
2 our movie theaters, our places of worship or work. We are good,
3 but we aren't great and we should be.

4 Thank you, and I look forward to your questions.

5 [The statement of Dr. Marcozzi follows:]

6

7 *****INSERT 3*****

1

Mr. Pitts. Chair thanks the gentleman.

2

I now recognize Dr. Schwab five minutes for his summary.

1 ?STATEMENT OF DR. SCHWAB

2
3 Dr. Schwab. Thank you. My name is Bill Schwab and I'm a
4 trauma surgeon. I'm a professor of surgery and I've trained
5 military and civilian trauma surgeons for the last 40 years of
6 my life.

7 I think as we focus on what's going on in the streets of
8 America it's appropriate to take a moment and realize that we have
9 soldiers, airmen, Marines and Navy in harm's way.

10 Yesterday, a letter arrived from one of my trainees who is
11 currently six miles from Fallujah, Iraq, and I read this letter
12 from Lieutenant Colonel John Schavonis, a surgeon.

13 "I write this sitting in my tent about five or six miles from
14 Fallujah, Iraq. The tent is pretty big and it has great air
15 conditioning. We have hot showers, three minutes combat style,
16 no more, and fresh fruit.

17 Outside it's about 104 degrees, a dry heat we mockingly like
18 to say. Our spirits are good. Over the past few weeks I've done
19 over dozens of major operations -- thoracotomies, exploratory
20 laporatomies, amputations, craniotomies and all of them to save
21 soldiers' lives.

22 Now an intense battle rages in Fallujah. We are quiet for
23 the time being. I am as ready as I can be for whatever comes
24 through these doors and the reason is because of what you taught
25 me. Your insights, your intellect, your skills, your cell phone

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1 always being on brings me the strength and the courage to go on."

2 I am the product of a military civilian partnership. The
3 United States Navy put me through medical school and trained me
4 as a trauma surgeon during Vietnam. Every one of my teachers in
5 surgery had served in Vietnam.

6 Trauma surgery became my genes. I'm going to discuss
7 briefly recommendation 11 of the National Academy report which
8 calls for integrating and optimizing the civilian network of
9 America's best and busiest trauma centers as robust platforms to
10 train, sustain and retain military teams in an expanded expert
11 trauma workforce necessary to perform the primary mission of the
12 Department of Defense's military health system readiness,
13 battlefield medicine and combat surgery.

14 I'm going share some data with you that we gleaned and
15 published after two years of extensive research. I won't bore
16 you with the methodology but let me just say it was extensive and
17 involved.

18 Over 40 face to face interviews with leaders from the United
19 States military medical corps, all three services as well as
20 civilian leaders.

21 We looked at how well prepared surgeons were to go to war,
22 and I want to clarify I'm going to use the word surgeons just to
23 abbreviate the time. But this also relates to physicians,
24 nurses, allied health professions and administrators.

25 Our research showed that the best word to describe the

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1 preparation prior to deployment to go to battle is inconsistent.
2 Inconsistent in training, inconsistency in skills and
3 inconsistency in competency.

4 And please don't blame the men and women that wore the uniform
5 because the military has very little opportunity to train in
6 trauma surgery in their hospitals. The most common invasive or
7 surgical procedure done in military hospitals is obstetrical
8 delivery.

9 The most common diagnosis and treatments rendered by
10 military physicians and surgeons are the care of the diseases of
11 aging amongst beneficiaries.

12 There is only one level of trauma center in the entire
13 Department of Defense at its 51 hospitals. As important, when
14 war ramps up there is very little time to train physicians and
15 nurses to go to war.

16 What was necessary and what is necessary is to provide a
17 constant training platform, a network of national military
18 civilian excellent trauma centers that has embedded full trauma
19 teams interdisciplinary that are continuously practicing trauma
20 night after night, day after day. And when called upon can
21 rapidly deploy to support the modern war machine.

22 Let me give you some statistics that might be a bit shocking.
23 What was the average age of the general surgeon that deployed to
24 Iraq and Afghanistan? Thirty-six. How many years of practice
25 did they have under their belt? Two.

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1 How many times were they accompanied by another surgeon who
2 had combat experience? Eighteen percent of the time.

3 That implies tremendous flaws in preparing to serve those
4 men and women put in harm's way to defend our freedoms and our
5 democracy.

6 This has been studied before. The Rand Corporation in 2008
7 did an extensive -- an extensive study and documented that the
8 best place to prepare military providers for combat and
9 battlefield medicine are in the busy trauma centers of the United
10 States. They also went on and studied with nine health
11 organizations any problems that might arise -- financial,
12 business, statutory licensing, and interestingly enough, none of
13 the problems, one, were identified as insurmountable, number two,
14 the nine healthcare organizations were optimistic and said they
15 would even be willing to do cost sharing, and last, from 2009 to
16 2014 when we interviewed the leaders of the five current military
17 civilian trauma training hospitals, no problem had arisen with
18 any of the things that I mentioned.

19 Mr. Pitts. Your time has expired. Would you wrap up,
20 please?

21 Dr. Schwab. We also -- I would like to just show you one
22 map because it's very important, if I could.

23 This map is actually a map that we generated looking at
24 American Colleges Surgeon data. These are the busiest and the
25 best academic trauma centers in the United States.

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1 We asked the question whether it was capacity to absorb as
2 many as 20 to 25 of these teams by looking at this data and the
3 answer is yes, there is.

4 I will also point out that in those orange and yellow dots
5 are some of the most stressed hospitals in the United States, the
6 safety net hospitals in inner city America who could greatly
7 benefit from the placement of these military teams to health care
8 of those victims of violence that you're reading about in the
9 papers.

10 Thank you very much, Mr. Chairman.

11 [The statement of Dr. Schwab follows:]

12

13 *****INSERT 4*****

1 Mr. Pitts. Chair thanks the gentleman and now recognizes
2 Dr. Manifold five minutes for your summary.

1 ?STATEMENT OF DR. MANIFOLD

2
3 Dr. Manifold. Thank you, Mr. Chairman.

4 My name is Craig Manifold and I'm an EMS medical director
5 in San Antonio, Texas and current chairman of the American
6 College of Emergency Physicians EMS committee.

7 And on behalf of the 35,000 members of the American College
8 of Emergency Physicians I'd like to thank you for the opportunity
9 to testify today regarding House Resolution 4365, Protecting
10 Patient Access to Emergency Medications Act of 2016.

11 A critical component of EMS care is the ability of paramedics
12 to administer controlled substances to patients when the follow
13 the EMS medical director's treatment protocols, more commonly
14 referred to as standing orders.

15 However, patient's access to these lifesaving medications
16 is in jeopardy and Congress must take action quickly, and I
17 emphasize and request quickly, to codify the use of standing
18 orders in the prehospital setting.

19 In my written testimony I provide a brief synopsis on why
20 this legislation is needed at this time and briefly the DA does
21 not believe the standing orders comply with the 1970 Controlled
22 Substance Act, which was the beginning of the Emergency Medical
23 Services. And so the issues and procedural processes could not
24 have been envisioned at the time of the enactment of the Controlled
25 Substance Act.

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1 But the DEA was prepared to promulgate a rule prohibiting
2 the use of these standing orders for EMS personnel.

3 ASEP, in conjunction with National of EMS Physicians and the
4 National Association of EMTs determine the legislation would be
5 needed to codify the current practice of medicine and ultimately
6 lead to the introduction of this resolution by Representatives
7 Hudson and Butterfield.

8 And thanks to the efforts of our groups, our coalition
9 partners, the bill has received the support of over 120 bipartisan
10 cosponsors and stakeholder organizations at this time.

11 While codifying the use of standing orders for EMS personnel
12 is essential, we also want the legislation to advance policies
13 that would provide uniformity, clarity and certainty for EMS
14 agencies and their medical directors around the country.

15 One of the easiest solutions to reduce confusion and
16 duplicity with regard to the primary point of contact between the
17 EMS agency and the DEA is to simplify the registration process.

18 Currently, most EMS medical directors rather than the EMS
19 agency itself register with the DEA and then their agency obtains
20 and administers the controlled substances associated with these
21 processes.

22 This utilizes the medical director's individual DEA number
23 and places a tremendous burden on these often volunteer positions
24 because of the potential liability of the medical director if the
25 ambulance services a drug diversion.

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1 Many of my colleagues and I believe it makes sense for the
2 EMS agency to be registered with the DEA. It should be an agency,
3 not an individual, which assumes the responsibility for ordering,
4 storing, dispersing and administering these controlled
5 substances.

6 EMS agency registration would also allow for the entire
7 organization to be united under one enrollment, thereby
8 streamlining the process and reducing administrative costs while
9 still preserving accountability.

10 Maintaining a separate registration for individual
11 locations and vehicles under the purview of the EMS agency is
12 extremely time consuming, duplicative and expensive.

13 Preventing the misuse or unintended use of the medications
14 and controlled substances is solemn comment of the EMS medical
15 director's job.

16 We as the medical directors and the associated management
17 staff work diligently to oversee the implementation,
18 administration and monitoring of these controlled substances
19 within their agencies.

20 My colleagues and I take this responsibility very seriously
21 and we believe that provisions of House Resolution 4365 will
22 actually reduce the opportunities for drug diversion.

23 Although diversion is not a common occurrence in fact one
24 recent survey of large EMS agencies across the U.S. showed less
25 than 20 diversions were investigations over the last five to ten

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1 years for nearly 70,000 doses administered annually.

2 As I previously mentioned, many EMS agencies rely on their
3 medical director's DEA license to order, transport and administer
4 controlled substances. These medications can only be delivered
5 to the address associated with the registration.

6 In the recent past, that meant these controlled substances
7 were delivered to my house. Alternatively, I could have waited
8 for address changes and ordering processes to be updated.

9 But this would have placed patient care in jeopardy and I
10 was not willing to do that. It makes sense for these substances
11 to be delivered to a central location operated by the EMS agency
12 where there would be direct supervision of these medications at
13 all times.

14 It's also vital that the EMS agency has the ability to
15 transfer controlled substances within its own organization. A
16 colleague in Houston, Texas, has over 100 DEA registrations due
17 to the requirement of meeting a specific DEA registration for
18 every brick and mortar facility or fire station where medications
19 are stored.

20 Completing a distributorship registration requires a
21 complex procedure, expense and increase potential for diversion.
22 The ability for an EMS agency to track and monitor these
23 controlled substances within the agency will improve the
24 efficiency and the medical care provided.

25 In conclusion, if the DEA prohibits the use of standing

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1 orders in EMS, patients will needlessly suffer and potentially
2 die.

3 Thankfully, the DEA has given us time to pursue legislative
4 and relief that will codify the use of standing orders and make
5 other common sense changes that will improve the delivery of care
6 in the prehospital setting.

7 However, I do not believe this grace period is unlimited.
8 Congress must take action quickly to ensure millions of Americans
9 who require emergency medical services each year are not
10 prohibited from receiving these live saving medications.

11 On behalf of ASEP and myself, I would like to thank the
12 members of Congress who have supported this resolution, our
13 coalition partners who have helped advance this legislation and
14 the National Association of EMTs in particular for their work who
15 have added to this critical issue in today's hearing. I look
16 forward to answering questions you may have about this bill and
17 my testimony.

18 Thank you, Mr. Chair.

19 [The statement of Dr. Manifold follows:]

20

21 *****INSERT 5*****

1 Mr. Pitts. I know recognize Dr. Myers five minutes for his
2 summary.

1 ?STATEMENT OF DR. MYERS

2
3 Dr. Myers. Good morning, Chairman Pitts, Ranking Member
4 Green, distinguished members of the subcommittee. My name is
5 Brent Myers and I serve as the president elect of the National
6 Association of EMS Physicians, 1,500 members strong, the vast
7 majority of whom are EMS physicians providing daily oversight for
8 the EMS care that's rendered in the streets of the United States.

9 I would like to thank you for holding this particular as
10 it relates to strengthening our trauma system and the National
11 Academy's report recommendation number ten which focuses on EMS
12 and this ties directly in to the bill that we're talking about
13 this morning, the Patient Access to Emergency Medicines Act of
14 2016.

15 Our membership would like to thank Representative Hudson,
16 Representative Butterfield and their more than 100 co-sponsors
17 of This very important legislation.

18 Dr. Manifold and I committed that we would not have
19 duplicative testimony so he has covered the issue of registration
20 and I'm going to move directly into standing orders and talk about
21 the direct importance for daily patient care of this very
22 important concept.

23 The beginning of the Controlled Substances Act referenced
24 normal medical care as we think about it in a hospital.

25 So if you think about a patient that comes in a hospital and

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1 I, as an emergency physician encounter that patient I would write
2 an order in the chart or put it into the electronic medical record
3 and a nurse would enact that single order for a single registered
4 patient. That simply does not apply in the EMS environment.

5 We encounter patients who are trapped, who are burned, who
6 have near amputations, who have overdoses on cocaine or other
7 medications and place our providers at risk and we must be able
8 to immediately provide lifesaving and safety-preserving
9 medications to those patients. And the way that that is
10 accomplished in almost every community in the United States is
11 via a standing order or a written protocol.

12 For twelve and a half years I've had the honor and privilege
13 to serve as the medical director for Wake County EMS in Raleigh,
14 North Carolina. During those twelve and a half years, over 1
15 million EMS responses occurred under my medical direction.

16 The ability of those 250 paramedics, 1,500 firefighters and
17 200 emergency medical dispatchers to work on a standing order is
18 the only way that the important care for those patients was
19 provided and, indeed, is true across the country.

20 I'm going to use just a little bit of my time to give a couple
21 of examples from our community about how these standing orders
22 are so important.

23 Before the end of the day today, a paramedic in Raleigh, North
24 Carolina, based on a standing order will provide a seizure control
25 medication to an actively seizing patient, many of whom are

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1 pediatric patients and in the absence of a standing order those
2 patients would continue to seize and potentially suffer brain
3 damage. Before the end of the day today, a paramedic in Raleigh,
4 North Carolina will administer a medication to a cocaine overdose
5 that will provide control to that situation and provide safety
6 for the providers -- law enforcement, firefighters and EMS -- who
7 have responded to that situation.

8 In the next three hours and every three hours until the end
9 of the day a paramedic in Raleigh, North Carolina, based on
10 standing orders will provide pain medication to a severely injured
11 patient.

12 These include in the past year a two-year-old that
13 experienced burns over 40 percent of their body who was able to
14 receive immediate pain medication. Seventy-seven year old
15 active individuals who were in their work shed at their house and
16 amputated three digits of their fingers.

17 How wonderful to be 77 years old but how horrible to be there
18 if we could not have provided immediate pain control for that
19 citizen based on the standing orders. Five-year-olds with 20
20 percent body surface area burns, a 34-year-old male who suffered
21 near complete amputation in a motor vehicle crash and was
22 uncontrollable due to pain and could not be extricated from that
23 severe environment were it not for medications on standing orders.

24 So these are not theoretical concepts. This is day to day
25 practice of medicine in the United States and what we are asking

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1 with this particular bill is not anything new. It is the
2 preservation and codification of our current practice.

3 And with that, I yield my time. Thank you very much.

4 [The statement of Dr. Myers follows:]

5

6 *****INSERT 6*****

1 Mr. Pitts. Chair thanks the gentleman. That completes the
2 opening statements of the witnesses. We'll begin questioning.
3 I'll recognize myself five minutes for that purpose. Start with
4 you, Ms. Klein.

5 The National Academy of Medicine Committee called trauma
6 care in the military and civilian sectors, quote, "a portrait of
7 lethal contradiction," end quote. On one hand, we have never had
8 better systems of care but on the other hand so many trauma
9 patients don't receive the benefit and needlessly die or sustain
10 lifetime disabilities.

11 The committee's report essentially called for overhauling
12 our national trauma system to integrate military and civilian
13 trauma and this is a sea change from where we are today.

14 What do you believe are the most critical components to
15 changing this paradigm and achieving the committee's goal of zero
16 preventable deaths?

17 Ms. Klein. I would say it has to start with the national
18 leadership. Second to that it needs to start with the
19 infrastructure. The great trauma centers that you hear talked
20 about are typically in an urban area and that means if you're in
21 the rural areas of the United States you're at great risk.

22 And so we've got to figure out systems to move these people
23 out and have current systems in the rural area and move them
24 swiftly into the trauma centers to take care of them and the ideal
25 is to have an integrated system with the military and the civilian

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1 hospitals working hand in hand to accomplish that.

2 Mr. Pitts. Thank you.

3 Dr. Marcozzi, in the last few years we've seen much
4 destruction as a result of manmade and natural disasters and we've
5 seen -- responded to significant threats from infectious diseases
6 such as Ebola, influenza, now Zika.

7 Six months ago, this committee held a hearing focused on
8 another IOM report focused on improving the health care response
9 to cardiac arrest. Are we building parallel systems for these
10 conditions?

11 Should we be or should we be taking a more strategic look
12 at where the gaps are in emergency care delivery system and
13 approaching this with a broader perspective?

14 Dr. Marcozzi. Thank you for the question, Chairman.

15 I think that, you know, in those conditions that you just
16 described minutes matter, and when minutes matter system design
17 has to be precise and accurate to affect the care of those
18 individuals whether or not it's a cardiac arrest patient, a
19 gunshot victim or a victim of a mass casualty be it a bombing.

20 So to that end, I think we are slightly building different
21 systems and I also think that the way the health delivery systems
22 are evolving are to encourage minimization of surge capacity, the
23 minimization and just in time staffing, just in time supply
24 chains, which is at odds with the concepts of mass casualty and
25 surge development and that's a challenge for us as a nation.

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1 But there's a way to proceed forward, and you mentioned is
2 there a strategic path forward and I think there is, and the way
3 to do that is to take some concepts that are championed by
4 preparedness colleagues across the nation that are championed by
5 trauma surgeons and emergency physicians and move them into the
6 health delivery reform aspects. So we don't develop two
7 different systems of care.

8 We develop a uniform system of care that is able to be applied
9 to both the cardiac arrest patient, the stroke victim, the trauma
10 patient or the gunshot victim because when minutes matter getting
11 the system right is important. And to do that effectively I think
12 both the military and the civilian sectors need to learn from each
13 other, develop one system that actually is a learning health
14 system and this is what's described in our report. The vision
15 is there. The means to accomplishment is there.

16 I think that strategically both the Congress and the
17 executive sides of government, the authorizing language and the
18 appropriators need to think about how we can best shape not just
19 a grant program because I don't think we can grant our way to
20 success on this. I think we need to include what we think about
21 as delivery of care what, we're discussing today, and move it
22 within the health delivery construct of what we do every day.
23 Thank you, sir.

24 Mr. Pitts. Thank you.

25 Dr. Schwab, we know that historically many surgical and

1 medical advances are made during war time. What happens to these
2 lessons? How are they integrated in the medical practice? How
3 are they passed on? Are these lessons truly learned? If not,
4 why not?

5 Dr. Schwab. Thank you, Mr. Chairman. It's a good question.

6 Medical history shows that actually it takes about a year
7 of war time for physicians and nurses to actually perfect their
8 skills.

9 It takes much less time for those physicians and nurses to
10 work back or to move back into civilian communities and not use
11 those skills. So the lessons learned from war are not readily
12 adapted or inconsistently adapted to the civilian practices.

13 What the National Academy and its recommendations are trying
14 to do is to formalize a bidirectional platform for learning, for
15 teaching, for education, for creating experts that can go back
16 and forth between the military and civilian sector and as
17 important to focus those people rendering care and seeing the
18 problems as the translators to the research laboratories.

19 And so in that way in the future the vision is is that lessons
20 learned will be lessons maintained and shared. From the military
21 to the civilian and during peacetime from the civilian to the
22 military.

23 Thank you, sir.

24 Mr. Pitts. The chair thanks the gentleman. My time has
25 expired.

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1 The chair recognizes the ranking member, Mr. Green, five
2 minutes for questions.

3 Mr. Green. Thank you.

4 Ms. Klein, I understand that Parkland took seven patients
5 from the Dallas attack on the police last week. Can you elaborate
6 on the kinds and degrees of costs that it takes for a major trauma
7 center like Parkland to be prepare to handle devastating injuries
8 and mass casualty incidents?

9 Ms. Klein. Yes, sir. Well, the first thing I will just have
10 to say is that a hospital has to be integrated into the system
11 and the system is EMS and for Texas we are very blessed.

12 We have a very strong trauma system which includes our
13 regional system and part of the regional system means in 19
14 counties the hospital's EMS agencies, public health come together
15 to look at plans, how to execute and how to manage these plans.

16 On this particular night, we knew that there was an event
17 going on downtown. No one knew that there was significant danger
18 in this event. And so all of a sudden how we were notified is
19 that we had a police car with an injured officer in it on our dock.

20 At that time we began to activate and be able to move forward.
21 So our activation process we have three levels of disaster
22 response. We spoke immediately to downtown to our office of
23 emergency management and we also talked to our regional trauma
24 advisory council to put them on alert this had occurred.

25 In a few minutes we had six of our faculty surgeons that were

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1 downstairs. Three remained downstairs. The others went to the
2 operating suite to wait in that particular area. Anesthesia was
3 downstairs.

4 Those officers -- three, four of them were severely injured.
5 The others had wounds that obviously needed operative
6 intervention and stabilization but they were not in a life
7 situation distress.

8 And so the message needs to be that the trauma center, as
9 far as I'm concerned, is the absolute foundation for disaster
10 response. Then you have to expand it out. It has to be a system.
11 The system has to be able to respond and, again, it is the
12 foundation.

13 So and last year or two years ago when Ebola hit I happened
14 to be the director of disaster response at that time as well. Our
15 hospital spent \$750,000 to mitigate should a patient with Ebola
16 hit our system.

17 We never got one patient. We have critiqued our response
18 and asked ourselves what would we do different and the answer is
19 the same. We feel like we were strongly prepared.

20 We had people that had -- were trained for medical
21 decontamination that stood up and were immediately available.
22 But we bought the suits that you needed and so we felt like our
23 response was adequate.

24 Mr. Green. In the Metroplex in Dallas/Fort Worth is there
25 another level one trauma center other than Parkland?

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1 Ms. Klein. Yes, sir. There is. There is Baylor's, a level
2 one trauma center. Methodist is a level one trauma center and
3 we are very fortunate to have Children's that sits right beside
4 us as a level one pediatric trauma facility.

5 Mr. Green. Okay. So you have three in the Metroplex?

6 Ms. Klein. Uh-huh.

7 Mr. Green. Okay.

8 Ms. Klein. And that particular night one of the other
9 hospitals got patients and then all of a sudden we were notified
10 that all the other trauma centers had shut down and we remained
11 open.

12 In the course of 7:00 p.m. to 7:00 a.m. we received 17 trauma
13 activations, motor vehicle crashes, motorcycle crashes and severe
14 burns and our trauma center remained open the entire time caring
15 for all the citizens that hit our doors.

16 Mr. Green. My frustration is Houston. Our two level one
17 trauma centers are right next to each other, at Memorial Hermann
18 and our public hospital, Ben Taub.

19 Ms. Klein. Yes.

20 Mr. Green. And recently -- well, relatively recently the
21 one in Galveston at UTMB has opened up so we have three within
22 a 50-mile radius.

23 In your opinion what does the National Academy of Medicine
24 Committee focus on creating a national trauma care system? How
25 do you picture that to fit in with the state trauma system would

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1 fit with the national picture?

2 Ms. Klein. Well, again, I think there needs to be national
3 infrastructure just like R. M. Caley called for in the neglected
4 disease. There has to be some type of national voice to say this
5 is what we're going to do and set the stage. That should trickle
6 down to the state level.

7 The state level should be held accountable for that and then
8 it's going to trickle to the regional. Everything, to me, is
9 regional. You can't create something in North Carolina that's
10 going to specifically work every single time in Texas or New Mexico
11 or New York.

12 But there has to be structures that say these are the pieces
13 that you have to have and you have to be compliant with this in
14 some way to hold people accountable to address that, plus the
15 funding. Our hospital last year spent \$65 million on
16 uncompensated trauma care.

17 We have a little bill back that we can get money from the
18 state. We got \$7 million back. So there has to be some way to
19 fund that infrastructure because these citizens are usually the
20 ones that are at their most productive years of life. So we can
21 not only save them but put them back on the street so they can
22 return to work. Then we have done a good job.

23 Mr. Green. Thank you.

24 I'm almost out of time. But I agree with our other witnesses
25 about the military and because, like I said, I saw the success

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1 in Iraq and Afghanistan, the quickness that may not happen in even
2 our level one trauma centers back ten years ago. So but I
3 appreciate you all being here today because I think there's a lot
4 of coordination we can do to help, and again, thank you for being
5 here.

6 Mr. Pitts. The chair thanks the gentleman.

7 I now recognize the vice chair of the health subcommittee,
8 Mr. Guthrie, five minutes for questions.

9 Mr. Guthrie. Thank you, Mr. Chairman, and I appreciate it.

10 And Dr. Marcozzi, I want to ask you a question based on your
11 role on the committee on military trauma care learning and health
12 systems.

13 One of the recommendations from the committee was to ensure
14 that EMS be made a seamless component of health delivery system
15 rather than merely a transport mechanism. Why the emphasis on
16 prehospital care? I just want you to elaborate and give you an
17 opportunity to elaborate.

18 If we really wanted to eliminate preventable deaths
19 shouldn't the focus be on getting the patient to the hospital as
20 quickly as possible and can you explain what really can be done
21 by paramedics and EMTs and what do you propose needs to be done
22 to improve prehospital care?

23 Dr. Marcozzi. I think the committee did a good job in its
24 due diligence and learned the lessons from what the military
25 learned and if you look at the data from those thousand service

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1 members what should be palpable to everyone, every American, that
2 a thousand brothers, sisters, fathers, daughters, could have been
3 saved from potentially survivable death, of those the majority
4 of those deaths occurred in the prehospital sector.

5 So before they hit the doors of a hospital, not coined a
6 hospital overseas, their deaths were potentially survivable with
7 the right care. Now, why is that? It's not the medics. It's
8 not the physicians.

9 It's not the PAs necessarily don't or aren't providing as
10 optimal care as they could but they're not -- we're not providing
11 the system of care and integrating that delivery of care in the
12 prehospital sector with the hospital sector's care. So why is
13 that? And you start to pull that string and fundamentally that's
14 a congressional -- the Social Security Act has not defined
15 prehospital care as one of the service types defined by CMS.

16 So therefore it is subject to a different set of -- it's a
17 different look than how we deliver care in the hospital sector
18 and the long-term care sector versus what we do in the prehospital
19 sector.

20 But the truth of the matter is when someone has anaphylaxis
21 or someone gets shot that care that's delivered in the back of
22 an ambulance should be seamless. From a patient-centered
23 standpoint, that care is delivered on scene in the back of a rig
24 and to the emergency department to the trauma suite.

25 That team of providers has to be all integrated and

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1 coordinated and right now, unfortunately, prehospital care is
2 subject to a fragmented system and championed by good folks like
3 Dr. Myers in North Carolina to try and do the right thing.

4 But federally I think we can shepherd that system better and
5 make it part of a system of care and not necessarily as an outsider.
6 That requires leadership and a leader to help do that.

7 Mr. Guthrie. Thank you for those comments. I appreciate
8 you elaborating further.

9 And Dr. Schwab, in your testimony you describe the benefit
10 to both civilian hospitals and military combat readiness, utilize
11 military trauma teams in civilian hospitals as a way they can hone
12 their skills and be best prepared for high-level traumas on the
13 battlefield. Can you elaborate on why you recommend the entire
14 military team be assigned to civilian centers and not just
15 military surgeons?

16 Dr. Schwab. Well, thank you. By saying the military trauma
17 team, military trauma team defines a little bit less of a work
18 force than actually the entire medical corps of the Army, Navy
19 and Air Force.

20 In discussion with the Department of Defense after the report
21 came out, there's actually been discussion about all military
22 personnel -- military medical personnel ought to have some
23 knowledge about what's going on on the battlefield. But there
24 are core specialties -- I'm using that word to describe physicians
25 -- and core practices among nursing and allied health professions

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1 that are necessary for trauma and combat casualty care.

2 Three specialties are necessary for rapid deployment and,
3 again, both the Rand study and our study found that very quickly
4 in the early war years general surgery -- trauma surgery --
5 orthopedic surgery and anesthesia providers were the three
6 specialists that were absolutely necessary but quickly the
7 military ran out of those specialties because they were so rapidly
8 deployed and they needed rest periods.

9 So we're not saying the whole military medical provider core
10 be assigned to them. But those specialties, those nurses and
11 allied health professions that are necessary or combat designated
12 need to be placed into these trauma centers in order to train and
13 sustain their proficiencies.

14 Mr. Guthrie. Okay. Thank you very much.

15 And that concludes my questions and I yield back.

16 Mr. Manifold. Mr. Chair, if I perhaps could add to the
17 comments.

18 Mr. Guthrie. Yes. As long as I get my 30 seconds back.
19 Okay.

20 Mr. Manifold. I apologize. I give you the perspective of
21 an emergency medicine physician and military physician with the
22 United States Air Force and developing the critical care, air
23 medical transport teams and mobile field surgical teams.

24 That component of a field perspective is critical on a day
25 to day basis on trauma care, being faced with that. I trained

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1 at Milford Hall Medical Center in San Antonio and we had trauma
2 patients every day and when we went to war when I was deployed
3 to Afghanistan with my team we were ready to go from day one.

4 That doesn't occur in every environment, particularly in the
5 military setting and that's where the advantages of these programs
6 recommended by the National Academy of Sciences through their
7 program report is integrating those teams into the civilian
8 community allows us to prepare and deploy those folks at a moment's
9 notice.

10 Not only does it enhance your combat readiness but also our
11 disaster response and domestic response capabilities by having
12 these folks prepared. And as the joint surgeon for the Texas
13 National Guard, it allows me to assure that my medical members
14 are prepared to walk out the door and also enhances the opportunity
15 to have additional military medical personnel perhaps serve in
16 the military without a full time response component but being able
17 to serve in a part time reserve component capacity.

18 Mr. Guthrie. I think I agree and I'm supportive. I
19 appreciate that and I yield back.

20 Mr. Pitts. The chair thanks the gentleman.

21 I know recognize the gentlelady from Florida, Ms. Castor,
22 five minutes for questions.

23 Ms. Castor. Well, thank you, Mr. Chairman and Mr. Green,
24 for calling this hearing on how we improve trauma care and thank
25 you to all of the witnesses here today.

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1 Our discussion draft of the Military-Civilian and Mass
2 Casualty Trauma Readiness Partnership Act being considered today
3 would encourage civilian trauma systems to accept the placement
4 of military trauma teams into the civilian care delivery system
5 and I wanted to say I strongly support this. I am so pleased that
6 the committee is being proactive on this because I have seen it
7 work back home in Tampa.

8 Tampa is home to MacDill Air Force Base where we have the
9 headquarters for Central Command and Special Operations Command.
10 We have the Air Mobility Wing and they are all supported by the
11 Sixth Medical Group and they have started a partnership with our
12 level one trauma center, Tampa General Hospital, back in 2011
13 starting with nurses and it has now evolved to surgeons and then
14 the full team approach.

15 It has been a benefit to the community because we have
16 fantastic specialists and dedicated military members taking care
17 of my neighbors.

18 But it has also provided the training that the medical group
19 has needed on -- where they wouldn't get it in other places because
20 the Air Force and military has scaled back a lot of their hospitals
21 on bases across the country.

22 So this is going to be an important part of the future. Tampa
23 General Hospital is our safety net hospital. It's our -- it's
24 the only level one trauma center on the west coast of Florida,
25 big metropolitan area. It's the home of one of our only burn units

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1 in the state and it's our teaching hospital.

2 So it's a perfect place. So I wanted to drill down into some
3 of the criteria as we -- this discussion draft says we're going
4 to provide grants.

5 We don't have all the money in the world to do this
6 everywhere. We're going to have to be particular. So Dr.
7 Schwab, what criteria should be fundamental to these kind of
8 partnerships?

9 What kind of investives and specifics do we need to build
10 into this so that we get we're efficient with the tax dollars?

11 Dr. Schwab. Thank you very much. It's a great question,
12 and one of the things that we've published earlier is the chance
13 of survival in this country is based on where you get hurt and
14 we know from the data in Tampa that you do pretty well. So
15 congratulations on that.

16 Let me just say that I don't want to define for the Department
17 of Defense what they need. But we know from other studies and
18 comparative studies between what combat physicians and surgeons
19 see on the battlefield and what is seen in our large very, very
20 busy trauma centers that it's a good match.

21 First, you need very, very high volume. The medical
22 terminology is you need extremely high case severity indexes,
23 which means that the cases are life threatening or limb
24 threatening and unless receiving some type of operative or
25 invasive intervention in a time manner, death is loss.

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1 Penetrating injury, unfortunately, in this country, all too
2 common, but gun wound injury is a great thing. And then the
3 ability to have mass casualty. Where does that come exclusive
4 of what you're reading about and seeing in newspapers?

5 It actually comes with inner city violence and specifically
6 gun violence. Again, in report this is cited but our own work
7 and publications actually from the trauma center in New Jersey
8 shows that many times when there is warring factions in urban
9 violence, trauma centers receive two, three, five, six, seven
10 wounded people at one time.

11 What is interesting about that a terrible liability to our
12 country is the asset is training teams how to respond to mass
13 casualties.

14 The other piece, and you mentioned it is, these happen to
15 be in academic centers because another part of recommendation
16 11 is that the Department of Defense and specifically the
17 secretary of the Department of Defense create career paths for
18 military physicians and nurses to become trauma experts and be
19 able to run their own trauma centers or their own trauma programs.

20 So placing these in academic medical centers is extremely
21 important. And the last thing I would say, and it was on the map,
22 one of the things that's fascinating, if you look at who responded
23 to the questionnaire where we got all of our data -- this is in
24 2014 -- 86 military physicians responses.

25 They were divided pretty equally between active duty

1 reservists, recently separated and retirees. So these are gray
2 grizzlies. These are people that had been to war, deployed
3 multiple times.

4 It's fascinating. Where do they go when they leave the
5 military? They to the urban centers, one of which is Tampa. But
6 they go to the urban centers and they're there. So there's this
7 symbiosis that we're looking for, this efficiency that we have
8 combat experienced teachers already in many of these academic
9 medical centers.

10 To quote one of the other representatives, we have the right
11 model with the right people in the right places. It's just
12 waiting to be nationalized, memorialized and funded.

13 Thank you very much.

14 Ms. Castor. Thank you very much.

15 Mr. Pitts. The chair thanks the gentlelady.

16 Now recognizes the gentleman from Pennsylvania, Dr. Murphy,
17 five minutes for questions.

18 Mr. Murphy. Thank you. This is a fascinating discussion.
19 I particularly want to thank Dr. Marcozzi and Dr. Schwab. I'm
20 also a Navy Medical Service Corps. And I currently work at Walter
21 Reed Hospital and we also have a unit in Pittsburgh at our 911th
22 Air Force where C-130s have an air med evacuation unit. So Dr.
23 Manifold, your thoughts are important too, as I look at this.

24 And I certainly see that as things have ramped down at Walter
25 Reed we don't have the same number of trauma cases. There has

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1 been other things which the hospital has done. I think it's an
2 important model whether it's oncology or orthopedics, et cetera,
3 to maintain the skill set of physicians.

4 But I do think this idea of having military physicians
5 embedded in civilian trauma units is important.

6 But there's another level to this I want to ask about. One,
7 who is in charge in the country? Is DOD, VA, HHS, CDC -- is there
8 a system already in place where people work together? Anybody?
9 Is anybody in charge?

10 Dr. Schwab. So one of the questions we ask leading up to
11 the publication that came out in 2015 using interviews. The
12 responsibility for combat readiness -- trauma combat casualty
13 care is diffuse across many leaders and many programs and
14 departments in the Department of --

15 Mr. Murphy. But it needs to be united, doesn't it, and if
16 some --

17 Dr. Schwab. Not only needs to be united but there needs to
18 be actually one particular leader and one of the recommendations
19 actually we -- there's 11 main recommendations and 61 subordinate
20 recommendations. It was hard to go through those.

21 But one of the very strong recommendations amongst
22 leadership is that the Department of Defense and specifically the
23 secretary recognized that within the medical health system --
24 military medical health system -- that there be one commander,
25 one person in charge of readiness in trauma and combat casualty

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1 care. It's a strong recommendation supported by other
2 recommendations to support that office so that policy, standards
3 and assessment of medical care for combat is put in place.

4 Mr. Murphy. To add to this too is that I remember
5 participating in a exercise called Operation Lycoming Reach with
6 the 911th and then NOSC, Naval Operations Support Center, in
7 Pittsburgh, and as well as other military and civilian trauma
8 physicians and nurses participated.

9 So, first, the volunteers were made up to look like various
10 trauma victims, put on C-130s, flown out to different parts of
11 New York and Pennsylvania, where then they did a triage of a mass
12 casualty, and then brought back. Then, the hangar was set up with
13 lots of cots and other triage and emergency care was done there,
14 and then they were put in ambulances at various hospitals in
15 Pittsburgh, really followed the whole way through.

16 And I want to say, do you think that with regard to these
17 grant programs that gives us enough robust training? Because,
18 obviously, when you have a mass casualty event--and as we heard
19 Nurse Klein who also said--it is going to go to multiple hospitals.

20 It is a matter also--not only is there a tremendous value
21 in having a military physician embedded in the emergency area and
22 trauma areas, but also the cross-training that takes place with
23 regard to we have got some military reservists who are trauma
24 physicians, emergency physicians, and nurses, and we are going
25 to have to be ready if we have a mass casualty event that is from

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1 a terrorist attack or something else, to send teams into areas
2 and pull patients out around the country.

3 Should we beef this up and add more robust parts to this?
4 Bill? Anyone? Colonel, can you comment on that? Or--

5 Dr. Marcozzi. So just to harken back to your first question,
6 and then I will just jump to your second. So the first question
7 Dr. Schwab mentioned around the DOD leadership, and DOD leadership
8 needs to be on two sides on the defense. We recognize that the
9 Rangers did it right. The Rangers did it right because Colonel
10 Kotwal talked to then-Colonel Stanley McChrystal and said, "Sir,
11 you need to shoot, move, communicate, and do medical." And so
12 the Rangers dropped their preventable deaths from 27 percent to
13 3 percent. Across the combat and commands right now, we don't
14 have that, so there needs to be two ownerships to this discussion
15 today, both the medical and the line.

16 Second, on the civilian side of the house, right now there
17 is certainly an ownership from the CDC on preventing injury at
18 the CDC. But owning potentially survivable deaths at HHS right
19 now, to coin a medical phrase, is bradycardic. And I think that
20 it requires some energy and motivation, either from the Congress
21 or injected as a result of appropriations to help them improve
22 this neglected area of delivery of trauma care, to that end, on
23 mass casualty development between the civilian and the military
24 sector.

25 I think that if we realize what the report describes and what

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1 Dr. Schwab did a great job of kind of coining with regard to
2 military coming into the civilian sector, they are standing
3 shoulder to shoulder. I would be shoulder to shoulder with a
4 civilian who has never been deployed. This trauma surgeon would
5 be shoulder to shoulder with someone who has never seen the type
6 of injuries we saw in Afghanistan and Iraq.

7 So I think that that hybrid model is joint. It is not joint
8 just across all services. It is joint because it is a
9 civilian-military construct to get right because both sides of
10 that house need to reduce their potentially survivable deaths.
11 So, and this doesn't require a lot of funding. It just requires
12 two different systems and an encouragement and a nudge to have
13 them work together to achieve this.

14 Mr. Murphy. I know we are out of time. I hope you will give
15 us a response, Ms. Klein.

16 Mr. Chairman, this might be one of those areas I would
17 recommend that perhaps the committee might want to go over to
18 someplace like Walter Reed and some other areas and meet with the
19 trauma teams there onsite and see what takes place.

20 Thank you very much. I yield back.

21 Mr. Pitts. The chair thanks the gentleman. I now recognize
22 the gentleman, Mr. Cardenas, for five minutes for questions.

23 Mr. Cardenas. Thank you very much, Mr. Chairman, and thank
24 you for having this hearing.

25 I am not a doctor, and I have never played one on TV, and

1 I don't pretend to play one in Congress. But I have been a 20-year
2 veteran of being a legislator now, and I have played the role of
3 being a budget chairman when I was the Chairman of the Conference
4 Committee in California, where for the first time we oversaw a
5 budget of \$100 billion. Sounds like a lot of money but,
6 unfortunately, it wasn't enough to do all the wonderful things
7 that you are talking about here that we would like to do there.

8 But let's bring it back to our national situation. When it
9 comes to our emergency room preparedness, why are you talking to
10 Congress? Isn't this a free market issue? What does Congress
11 have to do with increasing our capacity here? That is a smart
12 aleck question. I am just--I just hit the softball right there,
13 ladies and gentlemen. It is all yours.

14 Dr. Manifold. I think part of the address, without getting
15 into specifics of financing, is we feel that the response
16 component--

17 Mr. Cardenas. Call it resources, call it whatever you
18 want--

19 Dr. Manifold. --the resourcing for response capabilities,
20 the disaster, the contingency components are not adequately
21 funded in today's environment. We have attempts, we have--

22 Mr. Cardenas. Is the free market going to pay for it? Come
23 on, let's be honest. Is the free market going to pay for what
24 you are asking us to have in the United States? The answer is
25 no. Now continue.

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1 Dr. Manifold. No. Yeah.

2 Mr. Cardenas. Okay. I was hoping one of you would say that,
3 but go ahead.

4 Dr. Manifold. No, I am happy to say that. I was just trying
5 to get around to that without getting myself in trouble in the
6 Federal Register. I think that that is true. We have this
7 piecemeal approach. And particularly from an emergency
8 healthcare system, that is one of the things in the federal
9 component of this that is very fragmented is that there is not
10 a single federal agency responsible for emergency healthcare
11 systems.

12 We have through--the medical care through the Health and
13 Human Services, we have a response component primarily through
14 Department of Homeland Security, we have a robust EMS component
15 through Department of Transportation, and so there is not a
16 coordinated federal effort to put those resources together. And
17 so I think there is opportunity. It will not be a free market
18 component to currently structure our response and disaster
19 component with that.

20 Mr. Cardenas. Anybody else like to add? Nurse? Go ahead.

21 Ms. Klein. I was just going to comment that the free market
22 in healthcare usually means that I am going to go and look for
23 the patients who have some type of funding. And when you are
24 dealing with disasters, not everybody has funding. And so there
25 have been facilities who stood up and said, "Hey, I want to be

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1 the mecca, I want to be this," and the first time there is a real
2 event and they have uncompensated patients that they have in their
3 hospital, sometimes not three months, five months, or six months,
4 but a year, because there is nowhere to place them, they very
5 quickly change their tune.

6 So it should be for all, not just the patients who have
7 funding.

8 Dr. Marcozzi. Thank you, sir. Thanks for the question. I
9 think a lot bubbles down to the economics of this. I mean, the
10 truth is, a bomb affects a Democrat just as much as it affects
11 a Republican, affects a payer, an insured patient just as much
12 as a non-insured patient.

13 So, but I think that right now the current construct of our
14 government is that we either have supplementals for the next
15 latest disaster, or we have a \$250 million approximately hospital
16 preparedness program to try and influence a \$3 trillion health
17 delivery system.

18 The economics just aren't there, so I think that we have to
19 figure out a more strategic way to blend what we do every day and
20 prepare this construct in that, so that we are ready for the mass
21 casualty and we deliver the right economically optimized, best
22 outcome, delivery system that we are able to achieve. And, right
23 now, I think that those two agendas are kind of--there is a chiasm
24 between the two.

25 Mr. Cardenas. So right now, when it comes to the federal

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1 funding component of everything you are describing today, we are
2 woefully short on funding the various aspects of what we should
3 be considering and hopefully potentially funding, so that we could
4 bring to fruition all of the things that you are advocating today.

5 Dr. Marcozzi. I am speaking on behalf of myself, not the
6 committee.

7 Mr. Cardenas. Sure.

8 Dr. Marcozzi. But I don't think we can grant our way to
9 success. The \$3 trillion industry is set up to be a head in the
10 bed, and to try and shift to an outpatient market delivery system
11 versus an inpatient system, and capitated systems. And certainly
12 in Maryland that is where we are going.

13 So we have to think about the healthcare delivery system
14 today, right now, and then figure out a way to weave in concepts
15 of preparedness into that healthcare delivery system. But
16 setting up isolated, individual systems that are disparate, one
17 for preparedness and one for how we do things today right now,
18 it just won't get us where we need us to be.

19 Mr. Cardenas. Yes.

20 Dr. Schwab. I just want to comment from the military point
21 of view, and that is, you know, military health is a \$50 billion
22 a year--

23 Mr. Cardenas. Or so.

24 Dr. Schwab. --or more. What is interesting is is that
25 almost all of that goes to beneficiary care. Beneficiary care

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1 dominates what military physicians, nurses, must deliver every
2 day. There is no direct appropriation for readiness trauma
3 combat casualty care.

4 So maybe--believe me, I am a surgeon, I am not an economist,
5 but maybe reappropriating or redirecting appropriations, one of
6 which is talked about in the recommendation, saying to the
7 military, "You must recognize that your funds have to go to have
8 readiness force." And the reason is no one else can deliver this
9 on the battlefield but the military health system.

10 Mr. Cardenas . Thank you for your perspectives. I
11 appreciate it, ladies and gentlemen.

12 Mr. Pitts. The chair thanks the gentleman and now
13 recognizes the gentleman from Texas, Dr. Burgess, for five minutes
14 for questions.

15 Mr. Burgess. Thank you, Mr. Chairman. And, again, I want
16 to acknowledge that Ms. Klein and I did work together a number
17 of years ago. I won't identify how many years ago it was.

18 And I also want to acknowledge the presence of William Garner
19 here in the committee room. William was on the committee staff
20 when Chairman Dingell was chairman of the committee. And,
21 William, we appreciate now your service at Parkland Hospital down
22 in Dallas.

23 So we have the report that several of you worked on, and we
24 appreciate your service in that regard, and now the recommendation
25 of a civilian-military partnership. And I think we have heard

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1 several different angles on some of the difficulties that will
2 be inherent in starting this. At the same time, there are going
3 to be difficulties on the scaling side.

4 But I wonder if, Ms. Klein and Dr. Marcozzi and Dr. Schwab,
5 if you would all just try to summarize some of those inherent
6 obstacles that will have to be overcome. And, Dr. Schwab, we will
7 start with you and then move back down the line.

8 Dr. Schwab. Thanks very much. Let me just say that we are
9 going to build on something. We have five military-civilian
10 trauma training centers since 1998. We have three for the
11 military, for the United States Air Force, we have one for the
12 Army, we have one for the Navy. They have been the prototypes.
13 They have been the pilot studies.

14 We know from interviewing both the military and the civilian
15 leaders of the programs that many of the things that one might
16 perceive have been worked through--licensing, state stature,
17 state medical society authorization. They have been worked
18 through.

19 We do know that each state is slightly different, and so,
20 again, depending on what states the center went into, there would
21 be certain things that had to be worked through through state
22 statures and through licensing.

23 As far as the other thing that needs to be worked
24 through--and, again, I didn't get a chance to go through this--is
25 the capacity. We don't want these military teams to interfere

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1 with post-graduate training for our doctors and nurses.

2 Now, if you think about it, we have 9 trauma centers that
3 admit 5,000 patients a year. Some of them are safety net
4 hospitals that are paying moonlighting fees for doctors,
5 surgeons, and nurses just to staff. What is fascinating is
6 that both Rand and our study found that those would be centers
7 where those military teams would supplement and possibly be cost
8 effective in delivering care as well as training.

9 Mr. Burgess. Thank you.

10 Dr. Marcozzi?

11 Dr. Marcozzi. I don't have anything.

12 Mr. Burgess. Ms. Klein?

13 Ms. Klein. I would just comment from the nurse's
14 perspective is, if you look at putting a trauma team in, let's
15 say, Parkland, so there would be some significant advantages to
16 Parkland. For example, we have, you know, 10 nurses vacant in
17 the ICU, you know, 15 in the ER. The nurses that come from the
18 military, obviously, we could plan in there and take that
19 position, so we wouldn't fill that position.

20 If you look at our physicians, in the academic world, they
21 want to do more publications, and they want to do more research.
22 And so if there was another person there to take call, then that
23 would give everybody a little bit more time to do that. So I can
24 see where it would be a significant advantage to have these experts
25 join us.

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1 And somebody asked about disaster preparedness. When we do
2 our drills, when we do actual responses, having the military there
3 with us, we will all learn command and control and incident command
4 and what we call, you know, disaster medicine, which means you
5 are going to move them forward and do the minimal care to get them
6 to the next echelon of care. We will learn it together.

7 Mr. Burgess. Ms. Klein, let me just ask you because you
8 referenced it in your opening statement. Some of the first
9 patients you got Thursday night were in automobiles, whether they
10 were police cars or private cars, and then that affects your
11 reimbursement down the line. Can you just kind of walk us through
12 that and some of the inherent difficulties Parkland now is likely
13 to experience from that?

14 Ms. Klein. Right. So, in the trauma center, the only fee
15 that we can put--and we call it the readiness fee, to be honest
16 with you. So that means that everything you have you have to have
17 24 hours a day, you know, to be a trauma center, we bill into our
18 trauma activation fee.

19 So in our trauma activation fee, for every patient that comes
20 in that arrives by transport, meaning from transfer or transported
21 by our EMS agency, that trauma activation fee can be applied. If
22 the patient arrives by private vehicle, then it doesn't.

23 So in this case, on that night, there were three patients
24 critically wounded that we have to say we cannot bill that trauma
25 activation fee for that patient. So we do that. We screen--CMS

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1 spent a couple of years with this, as you are familiar with. And
2 one of the things they looked at very carefully was our trauma
3 activation billing. And so we are meticulous to make sure that
4 we have validated whether that fee is applicable to those
5 patients.

6 So if we could, we are allowed to do the appropriate
7 activation fee for every patient that came through those doors,
8 it would be a much more fair process for the trauma centers, and
9 it would also make sure that that readiness fee is applicable
10 across every patient that hits the door that meets the trauma
11 criteria.

12 Mr. Burgess. Now, Mr. Chairman, I would just point out, that
13 is a very important point because, as Ms. Klein pointed out, I
14 mean, they are the court of last appeal in North Texas. They don't
15 get to say, "We are full." They don't get to say, "We are tired."
16 That is where you go when all the chips are down and everything
17 is stacked against you.

18 Thank you, Mr. Chairman. I will yield back.

19 Mr. Pitts. The chair thanks the gentleman, and I now
20 recognize the gentlelady from North Carolina, Mrs. Ellmers, for
21 five minutes for questions.

22 Mrs. Ellmers. Thank you, Mr. Chairman, and I want to thank
23 the panel for being here today for this subcommittee hearing.
24 This is so vitally important. As a nurse, I understand that, and
25 I just want to thank everyone--Ms. Klein, Dr. Marcozzi, Dr.

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1 Schwab, Dr. Manifold, and Dr. Myers.

2 Dr. Myers, I did not realize until you started your testimony
3 that you are in the Raleigh area. So thank you for what you are
4 doing, and all of you. Your service is amazing, and so needed,
5 and we do need to fix this problem.

6 Ms. Ward, I am going to--I will start with you. I just want
7 to know--in particular, as we know, there are always inside
8 politics in all hospitals. Do you find that hospitals are
9 embracing the idea of a trauma military team coming in?

10 Ms. Klein. Well, I certainly haven't discussed it with all
11 the trauma centers, but I know in our hospital I think it will
12 be a welcomed addition. Again, I think the challenges, I mean,
13 we all know about credentialing, licensure.

14 Mrs. Ellmers. Yes.

15 Ms. Klein. You know, all of that would have to be addressed
16 by the regulatory system before it was ever implemented. But,
17 you know, for our system, we are an academic hospital, just like
18 Dr. Schwab, and we embrace education and have new people there
19 frequently. I think one of the things that we would probably ask
20 for is that the people who are sent there at least have 12 months
21 and not a rotator of every 3 months, so then you are really doing
22 orientation.

23 Mrs. Ellmers. So that it is more of a--

24 Ms. Klein. A consistent basis.

25 Mrs. Ellmers. --consistent issue.

1 Ms. Klein. Right.

2 Mrs. Ellmers. So that there is a consistency there. I
3 agree. I agree.

4 Dr. Schwab, I just want to tell you, I represent Fort Bragg,
5 and a couple of months ago I had the opportunity to actually go
6 down and visit their combat training in the field, their trauma
7 readiness, and I was amazed by what they were doing, and the
8 evolution since being at war for so long, how things have changed
9 over time, and the differences that I see in that ability.

10 So I just--I thank you, and I see the importance of this,
11 and I hope that we can move forward with this. I think these are
12 incredible ideas to move forward on.

13 And, Dr. Manifold, you spoke about the inventory, the
14 controlled substances inventory process now, incredible, and
15 absolutely--you know, I know we also talked about the
16 fragmentation of all of these services. It sounds like an
17 absolute nightmare. Can you expand a little more on what you were
18 speaking about?

19 Dr. Manifold. The concerns with management of the
20 controlled substance are we all have the same goal of effectively
21 being able to administer those medications to our patients in
22 need, at the same time balancing and minimizing any potential for
23 diversion of these type of medications. And so we understand that
24 component of wanting to be able to track medications through.

25 And so what happens currently in an ideal situation is a

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1 medication is ordered on a special form. It arrives from the
2 manufacturer. It may come to an office, what is directed on the
3 physician's license, and that is then inventoried, put in a safe
4 place. It may be placed in a vial or with a tracking number, and
5 then be put in the place it would be administered to a patient.

6 In a physician's office or a hospital setting, that is the
7 model that was placed for the Controlled Substance Act that was
8 written in 1970. For emergency medical services, we have
9 vehicles and personnel that are on the move continuously. They
10 may not be at that brick-and-mortar station. They may be moving
11 to the hospital, and they may have to go back to a supervisor or
12 a central location, which takes them out of their response area
13 to be restocked with those controlled substances.

14 And, again, from a medical director standpoint, when I have
15 to have a direct--or a separate license for each one of those
16 facilities, it can be very problematic in trying to manage and
17 control that. If I have a license or a product that is sent to
18 that facility, and the individual there doesn't recognize the
19 name, doesn't understand the importance of this delivery, who
20 knows where that goes to because it has not been entered into our
21 system.

22 And, hence, we want to try to--with this legislation try and
23 enhance that process of tracking and monitoring the control
24 system.

25 Mrs. Ellmers. And I can see, Dr. Myers, that you very much

1 agree with that as well. And I can see how this probably
2 contributes to a lot of errors. You know, absolute--you know,
3 not that anyone would make those errors knowingly, obviously, but
4 you can--I can see how there is just an incredible disconnect
5 between efficiency and the ability to be in a controlled
6 environment, because that is essentially what we are talking about
7 here is trying to control chaos.

8 So, Dr. Myers, would you like to also, in just the few seconds
9 that I have--

10 Dr. Myers. Sure. Just succinctly, 4365 does one thing that
11 helps us all, and that is it creates a mechanism that actually
12 applies to EMS that officers from the DA can utilize. The problem
13 we have today is there is no mechanism, and so every person in
14 the enforcement arm is trying to do the best they can under a law
15 that just does not fit the practice. And so we end up with this
16 disparate way of doing it, through no one's intention. This is
17 the solution to that problem.

18 Mrs. Ellmers. Well, thank you, again.

19 And thank you, Mr. Chairman, for bringing this important
20 subcommittee hearing. Thank you.

21 Mr. Pitts. The chair thanks the gentlelady.

22 I now recognize the gentleman from New York, Mr. Engel, for
23 five minutes for questions.

24 Mr. Engel. Thank you, Mr. Chairman. The state of our
25 trauma system is I think something that most of us have likely

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1 given relatively limited thought to until a personal national
2 tragedy brings it to the forefront. I would imagine every one
3 of us has relied on our trauma system for care either for ourselves
4 or for a loved one, so I would like to start out by saying thank
5 you to all the healthcare professionals present today who have
6 dedicated their lives to caring for those in trauma situations.
7 Your work is truly lifesaving.

8 Ms. Klein, I found the portions of your testimony concerning
9 trauma activation fees very alarming. If my understanding of
10 your testimony is correct, a gunshot victim might have to wait
11 in a trauma bay for a full half-hour before moving to an operating
12 room in order to ensure that the trauma center receives the
13 activation fee it needs to pay its bills. Is that true? Is that
14 the case?

15 Ms. Klein. No. There has to be 30 minutes of critical care.
16 It can be applied at any time, and, you know, you monitor that.
17 So if a physician is there looking at the X-rays, putting in chest
18 tubes, managing the airway, you can clearly see where that 30
19 minutes is addressed.

20 In our situation, I will be honest with you, if a patient
21 is--what you described is in our trauma bays more than 30 minutes,
22 then we have an issue with that. So most of our gunshot wounds
23 to the chest or to the abdomen come into our trauma rooms and go
24 straight to the operating suite.

25 Mr. Engel. Okay. Let me ask you about partnerships between

1 civilian trauma centers and the military. You contended that
2 such partnerships might, and I am going to quote you, "enable a
3 military team to be mobilized, not just overseas, but also to
4 respond to a mass casualty event like the one we have just
5 experienced in Orlando." Can you elaborate on how these
6 partnerships would help facilitate such response?

7 Ms. Klein. Sure. So obviously, the expectation is that
8 these military teams would be embedded in our trauma center, so
9 they would become our colleagues, not, you know, people that were
10 visiting us. And so when you go through a disaster response,
11 everybody should be trained for the hospital response, as well
12 as how they are going to work in the region.

13 So I will give you a perfect example. When Katrina hit, we
14 had 21,000 people visit Dallas. Houston had the same amount.
15 And so when you look at that, we activated a health care facility
16 in the convention center. So that means that we had to take people
17 from the hospitals, from our EMS off their normal jobs and put
18 them in this convention center to take care of patients.

19 If we by chance had a military team embedded in us, that would
20 give us additional resources to be able to do that. So we would
21 have the opportunity as a civilian hospital to learn, but they
22 would also have the opportunity to learn.

23 Now, in those situations there weren't a lot of critical,
24 you know, gunshot-wound type of events like that, but had we had
25 them embedded with us during the event that happened Thursday

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1 night, they might have been the one that took the patient to the
2 OR and the civilian trauma surgeon, wait for the next patient to
3 come through. And that is the expectation that we see happening.

4 Mr. Engel. Thank you. Dr. Marcozzi, you cited a startling
5 statistic during your testimony. And I quote you again.

6 "Approximately 1,000 service members died of potentially
7 survivable injuries from 2001 to 2011 in Iraq and Afghanistan.
8 Here at home, nearly 150,000 trauma deaths occurred in 2014." Can
9 you elaborate on that?

10 Dr. Marcozzi. Certainly, sir. So there was a study done
11 and it was championed by a trauma surgeon who started to ask, well,
12 of the lives that we lost in Iraq and Afghanistan, could I have
13 saved any of those? So I asked the right questions and actually
14 did a very unique way to look at were those lives lost and looked
15 at the autopsy reports of those patients and then started to
16 quantify how many of those patients could have had lives saved.
17 And then he quantified that and found out that by his potentially
18 survivable definition that approximately 1,000 service members
19 from 2001 to 2011 were deemed potentially survivable.

20 The majority of those cases were in the pre-hospital sector,
21 as I mentioned, and of those in the pre-hospital sector, the
22 majority of those died of three different reasons. The first was
23 hemorrhage, the second was airway, and the third was pneumothorax.
24 So addressing those in the pre-hospital sector would certainly
25 mitigate or decrease those number of potential lives lost, and

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1 you saw a significant pivot by the Department of Defense to embrace
2 some of that literature, although late. And you saw tourniquets
3 being employed much more readily in theater to save some of those
4 lives.

5 So that and Secretary Gates' 1 hour. Minutes matter in
6 trauma care, and when the Secretary came out with the 60-minute
7 golden-hour rule, that a patient needed to be transported back
8 to a military treatment facility within 60 minutes, that changed
9 and decreased our mortality in theater. So those two were
10 significant changes to the way the military does things and speaks
11 to that, 1,000 service members.

12 Mr. Engel. Thank you, Mr. Chairman. I see my time is
13 expired. Thank you. Thank you to the witnesses.

14 Mr. Pitts. The chair thanks the gentleman. Is the
15 gentleman Mr. Collins ready or do you want me to--the chair
16 recognizes the gentleman from New York, Mr. Collins, 5 minutes
17 for questions.

18 Mr. Collins. Yes, thank you, Mr. Chairman.

19 As the former county executive of Erie County, Erie County
20 Medical Center is a trauma one. We are the go-to trauma center
21 for anyone and everyone in western New York. And so I guess, you
22 know, I am certainly familiar with how lifesaving a nearby trauma
23 center--and you were saying minutes matter. One of the things--I
24 know what we are talking about with the military, making sure we
25 share best practices. What we have learned here, we share there.

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1 And so I guess perhaps part of my question is we had a case
2 with the Buffalo Bills several years back, a spinal cord injury
3 on the field, and lo and behold, the--and it was a trauma surgeon
4 who was the Bills' doctor went and used what they called moderate
5 hypothermia, cold therapy, which frankly had probably never been
6 used before on the football field. And the prognosis then of this
7 player was night and day, night and day different than what a
8 traditional therapy might have been, somebody thinking truly out
9 of the box.

10 So I guess my real question is if anyone would want to weigh
11 in on how we are in fact communicating one trauma center to
12 another, whether it is military, civilian, or civilian or even
13 with trauma physicians. You know, the best of the best save lives
14 every day, and we know too tragically in some cases folks who might
15 have been near Erie County Medical Center would have lived and
16 those not near did not.

17 So, you know, I think that is a general thing of what Congress
18 might be able to do to help move that along.

19 Dr. Schwab. Well, having been born and brought up in upstate
20 New York, moderate hypothermia is present 6 months of the year.

21 But let me just say that your question is how well does
22 communication take place. Communication on the civilian side
23 actually in all of the disciplines I think proceeds fairly well.
24 There are established academic societies where research,
25 observation, data is presented, peer review is accomplished and

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1 those that are felt worthy are published and people learn pretty
2 quickly. And by pretty quickly I mean within a matter of years
3 what is going on.

4 Where there seemed to be a wall that occurred and was really
5 strengthened after Vietnam for whatever reason, probably just the
6 adversity to the Vietnam War, where that all broke down was between
7 the military and the civilian worlds. There is very little formal
8 bidirectional way the military can communicate with civilians.
9 It does occur, but it is much more informal.

10 Interestingly enough, one of the things that we are talking
11 about that would be interesting to this committee is reusing and
12 asking information technology, data people, software developers
13 to make all of our electronic medical records and our
14 decision-support tools proactive at the bedside so that we can
15 be informed about the latest data at the bedside while we are
16 making decisions. That would lead to some standardization and
17 therefore decrease actually mistakes that are made and even
18 potentially save more lives.

19 So I think one of the things and one of the reasons we were
20 asked to serve on the committee was to increase and find ways to
21 formally promote bidirectional flow across all disciplines but
22 between the military and civilian sectors. Thank you, sir.

23 Mr. Collins. So another issue, we talk about NIH funding
24 a lot, 21st Century Cures in particular, looking at increased
25 funding, in my cases, you know, that leads to cancer and other

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1 illnesses. Is there a way that trauma centers can access NIH
2 funding of any significance, or is that not a normal pathway that
3 we see?

4 Dr. Schwab. So, again, one of the things that the report
5 really focused on is if you look at the burden of injury, both
6 death, disability, and you look at long-term disability,
7 especially because trauma is the leading cause of death and
8 long-term disability in people under 46--

9 Mr. Collins. I have only got 30 seconds but--

10 Dr. Schwab. --you basically see that there is a
11 disproportionate--there is very little funding.

12 One of the things I would invite your attention to on chapter
13 4, 33, is looking at NIH funding measured against the burden of
14 disease for Americans and injuries at the bottom of the list. So
15 the answer is there is no formal trauma funding in the NIH for
16 trauma--

17 Mr. Collins. I think that whole issue is one we are going
18 to have to look at because in many cases what was happening has
19 just continued and maybe it is time to re-jigger that, the
20 priorities.

21 Dr. Schwab. Yes.

22 Mr. Collins. Yes. Thank you.

23 Dr. Schwab. Thank you.

24 Mr. Collins. Thank you, Mr. Chairman. I yield back.

25 Mr. Pitts. The chair thanks the gentleman and now

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1 recognizes the gentleman from Indiana, Dr. Bucshon, 5 minutes for
2 questions.

3 Mr. Bucshon. Thank you, Mr. Chairman.

4 I was a cardiovascular and thoracic surgeon for 15 years
5 prior to coming to Congress, so thank you all for what you do on
6 behalf of your patients. It is appreciated. I know. I have
7 been there. I was also a Navy Reserve officer from '89 to '99,
8 never got called up but I was ready.

9 So my question is going to be maybe to Dr. Schwab and Dr.
10 Marcozzi about manpower issues. First of all, I support this
11 idea, this concept about integrating the systems. It is
12 important. I think it makes sense.

13 That said, you know, even though I was in a community
14 hospital, obviously I had had a lot of background in trauma surgery
15 and still did a fair amount on the thoracic side. I would have
16 been willing, had I been--I wasn't on IRR or anything but had I
17 been called, I would have been willing to go in a heartbeat for
18 a month or two to Afghanistan or to Iraq and helped if needed or
19 somewhere else to support--you know, to Germany to support people
20 from Germany that were going in theater. But that isn't really
21 a possibility. And when I became a Member of Congress, I
22 discussed that with the head of the Navy Reserve from the formal
23 admiral, Admiral Debbink was his name. Any thoughts on that in
24 not only helping train people that are active-duty in the trauma
25 setting but having the ability to access potential people who you

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1 may not think would be otherwise available to you if needed? Any
2 thoughts?

3 Dr. Marcozzi. So, you know, as a reservist, you know, it
4 is palpable to me that there is a better way to address these
5 issues. I think that from a military standpoint this requires
6 DOD, which is going to be kind of a change for them to make
7 dedicated billets at some of these major civilian trauma--

8 Mr. Bucshon. Yes, I guess I should clarify. I wasn't
9 also--not a reservist. I mean, I wasn't in the reserve. Through
10 the reserve, I understand there was ways to access that. But for
11 a variety of reasons, you know, I wasn't still in the reserve.
12 I had been in and was out.

13 Dr. Marcozzi. Yes, sir. So I think that there is a way that
14 DOD can help shape what these look like, these joint military
15 civilian trauma centers look like. It requires dedicated billets
16 and dedicated staffing. And the center itself has to understand,
17 during a deployment, those assets will be removed from there, so
18 building in a safety mechanism so that the care is kind of
19 continuous when they get deployed, that system can absorb that
20 loss because what will likely occur will be they will become part
21 of the infrastructure of the center and then the center will just
22 adopt them as part of their own. Unfortunately, they will get
23 deployed and then the center will have to absorb that. So
24 strategically thinking about how to employ them correctly is
25 important.

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1 And the second piece of this is how do you blend an approach
2 between the reservist, the IRR, which I think are a potential
3 untapped resource to actually achieve what we are trying to
4 describe. Right now, I think that the Department of Defense
5 doesn't do that entirely right. I think that there was a lot of
6 testimony to the committee that says that reservists who are
7 deployed went potentially before their training was complete on
8 how to manage trauma care. So better training prior to deployment
9 contiguous is going to be important.

10 Mr. Bucshon. I mean, because for me, just the economics of
11 it and, you know, where I was in my practice and with my family
12 it would have been difficult to, you know, rejoin the reserve,
13 but to be called for 6 months or a year, it is just not a practical
14 situation. But, you know, for a month or two, it would be
15 something that I would have done in a heartbeat.

16 Dr. Marcozzi. One of the things that is not so apparent is
17 that this is aimed across the DOD, the military health system,
18 reservists, National Guard, and even some other contract people
19 that work for the DOD.

20 But let's just look at this reserve thing. If you look at
21 the map of the United States and you look at where our busiest
22 trauma centers are and you just say that you are a reservist and
23 I will pick on you and you are in a busy practice in a community
24 and you want to do your 2 weeks and you want to re-certify or
25 sustain in your trauma aspect, by creating this national network

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1 with these centers regionally, you could do that and go home every
2 night as opposed to now, which is reservists being stationed and
3 sent for 2 weeks of training actually all over the Department of
4 Defense. And so there is some real cost-efficiencies here for
5 reservists that need to train or learn new or sustained skills
6 by creating a national network of these training centers,
7 especially among the high-volume centers. Thank you.

8 Mr. Bucshon. Thank you. I yield back.

9 Mr. Pitts. The chair thanks the gentleman.

10 That concludes the first round. We will have one follow-up
11 per side. The chair recognizes Dr. Burgess 5 minutes for
12 follow-up.

13 Mr. Burgess. Thank you, Mr. Chairman.

14 You know, we have been talking about the possibility of
15 setting this up, scaling it, building on what has already been
16 there. Let me ask a question from a different perspective and
17 primarily I am directing this at Ms. Klein, Dr. Marcozzi, and Dr.
18 Schwab. But is there a danger in becoming over-providered on the
19 trauma side?

20 Dr. Schwab. One of the recommendations--let me back up. We
21 asked the same question and were asked the same question on the
22 committee. Currently, there seems to be a surge among the
23 for-profit health corporations to establish level 2 and even level
24 3 trauma centers in the more affluent communities, therefore,
25 decreasing the volume going to our level 1 trauma centers, which

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1 are the training centers.

2 One of our recommendations, therefore, may be on the surface
3 contradictory. One of our recommendations is that, where
4 appropriate, a sample, a group of military treatment
5 facilities--that is military hospitals--become American College
6 of Surgeons verified trauma centers and participate in the
7 civilian system.

8 We think that is doable and will not take away from the other
9 trauma centers that are charged with the education and research
10 of the civilian sectors and may be these training centers. The
11 DOD would have to be selective, and they would probably have to
12 follow a model that was created in San Antonio because San Antonio
13 has the only level 1 trauma center in the military which is fully
14 integrated into the civilian trauma and emergency system.

15 Dr. Marcozzi. Dr. Burgess, my comment would be, wouldn't
16 that be a nice problem to have, was my first initial reaction.
17 I think that when we start to try and strategize--

18 Mr. Burgess. It was difficult for me to ask the question.
19 I just want you to know that. And I also want you to know that
20 I can't believe I used provider as a verb.

21 Dr. Marcozzi. So I think that there is a deficit right now
22 in our go-to-war mission for the Department of Defense, and it
23 primarily revolves around the ability to care for soldiers on
24 battlefields. And when I say soldiers, generally all services
25 on battlefields. And that is a neglect that we need to address

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1 as a nation, as a Congress, as a White House because we can't do
2 our nation's--we can't ask young service members to go in harm's
3 way and not provide them the best ability to save their life if
4 they were injured on a battlefield.

5 So I think that I would like to have another congressional
6 hearing on how do we reduce our trauma capability in 5 years for
7 the Department of Defense when we get there from here, but right
8 now, I think that there was a recognition from the committee that
9 the current strategy that DOD uses to best care for soldiers on
10 the battlefield is inadequate, and I think the report describes
11 a vision on how to get there from here.

12 Mr. Burgess. The genesis of asking the question, I mean,
13 a couple of years ago we had the Ebola crisis if you will in the
14 Dallas-Ft. Worth area, and you did have patients showing up at
15 one of these ancillary--they were actually not ancillary. They
16 are full ERs. And how do you--scarce resource, the moon suits
17 that were available, how do you deal with the distributional
18 problems that when a patient--you can't control where the patient
19 accesses. So that was, you know, one of the reasons that made
20 me think in terms of is there going to be some problem with our
21 designation.

22 So I realize it may be a good problem to have and I would
23 obviously welcome working through that, but at the same time, from
24 a planning standpoint where we are talking about planning being
25 one of the primary foci of this, from the planning standpoint,

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1 I think that is one of the things that we have to consider.

2 I am sorry, Ms. Klein. You wanted to say something as well.

3 Ms. Klein. There are two ways we can look at this. So,
4 first, to take a patient to a facility that you know is going to
5 have to turn around and transfer that patient to another facility
6 in some ways to me doesn't make sense because they should go where
7 they are needed to go in the first place. And so some of these
8 facilities, especially in Texas we are having the standalone
9 ERs--and don't get me wrong; I think there is definitely a role
10 for the freestanding emergency departments--but to be engaged in
11 some of these critical pieces, they need to be prepared, yes. But
12 if you know you are going to take a patient there that is going
13 to have to be transferred, there are some questions there. It
14 doesn't mean it can't happen, but we just need to look at that.

15 But one of the things I really want to talk about is data
16 management. So to answer your question and some of the other
17 questions is that this should be a data-driven system. And the
18 performance improvement process in a trauma center is the DNA of
19 that trauma center. If it is a strong PI process, then you are
20 going to have a strong program. And why? Because you are looking
21 every day at what you are doing right, what needs to be fixed,
22 what needs to be adjusted.

23 And so part of what this model that we are talking about is
24 to bring together the civilian trauma center's data and
25 performance improvement with the military and asking who is doing

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1 it right and who is doing it best and how do we learn from you?
2 We have a thing called Trauma Quality Improvement Program through
3 the American College of Surgeons. We call it TQIP. And in TQIP
4 we compare our hospitals. We call it benchmarking. And so the
5 ideal is to provide that same opportunity in the military world
6 so we can see where are our best performers and how do we get there?
7 How do we follow their lead to be best performers ourselves?

8 Mr. Burgess. Thank you. Thank you, Mr. Chairman. I will
9 yield back.

10 Mr. Pitts. The chair thanks the gentleman and now
11 recognizes Mr. Green, 5 minutes for a follow-up.

12 Mr. Green. Thank you, Mr. Chairman. And as I said earlier,
13 at University of Texas Health Science Center in Houston where Dr.
14 Burgess went, we had an ER doctor who actually was the one who
15 told me back before 9/11 that they were training a lot of
16 their--they were doing rotations from the military through Ben
17 Taub Hospital and Memorial Hermann, which is right next door to
18 each other. And when I was in Iraq, I was surprised even at
19 Landstuhl in Germany the military would call up neurosurgeons,
20 you know, anesthesiologists, and they would serve their 90-day
21 rotation so they could still have a practice back home.

22 But because of our issues with the lack of level 1 trauma
23 centers in our country, I think it is a great idea to see if we
24 can partner with the Department of Defense and say these are
25 facilities that you can be trained in, and it helps us with the

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1 funding, too, because, again, we have second and third level may
2 be easy in some areas, but level 1 takes a big investment, whether
3 it be Parkland or--in Houston. So I think that is a great idea
4 to do that.

5 Dr. Marcozzi, you had the opportunity to participate in both
6 the military and civilian trauma from so many vantage points, so
7 do you believe this Federal leadership is important by improving
8 our ability to serve both our military and our civilians in trauma?
9 And to what extent does the military medicine for trauma differ
10 for civilian trauma care?

11 Dr. Marcozzi. Yes, thank you, sir. I appreciate the
12 question. So believe it or not, last night anticipating
13 questions I actually did a back-of-the-envelope look on who would
14 own this report from at least the congressional side. And in a
15 quick look, the Senate Armed Services Committee, the Senate
16 Finance Committee, the Senate HELP Committee, the Senate
17 Veterans' Affairs Committee, House Armed Services Committee, the
18 House Ways and Means Committee, the House Energy and Commerce
19 Committee, the House and Senate Appropriations Committee, and the
20 House Committee on Veterans' Affairs would have and has equities
21 within this report.

22 Mr. Green. Yes.

23 Dr. Marcozzi. So to that end on the executive side not only
24 does the White House and policymakers have ownership of this but
25 so does OMB. And both of those, from an administrative

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1 standpoint, have to embrace what we have described here because--

2 Mr. Green. Yes.

3 Dr. Marcozzi. And the only place to execute a
4 multi-departmental effort has to be championed at the White House.
5 What the committee realized is to have this be a successful effort,
6 both need to be successful. If one arm of that fails, then both
7 arms fail. So the White House needs to own this. Congress can
8 certainly help the administration, encourage them to embrace some
9 of the recommendations here. But if the White House does that
10 and calls the Department of Defense and the Department of Health
11 and Human Services to task on this and says create a nidus for
12 leadership and accountability and data collection, then both will
13 actually succeed in their efforts.

14 Mr. Green. Well, of course, in Congress the Energy and
15 Commerce Committee would like to have all the jurisdiction, but
16 you are right, Homeland Security, Armed Services, of course
17 appropriators, and so that makes it sometimes difficult to be able
18 to put these all together, and that is why there does need
19 leadership from the White house, I guess, in doing that.

20 But you have given me some ideas and, like I said, Congressman
21 Burgess and I for years have authorized funding for trauma care,
22 but it is tough to get the money out of the appropriators. And
23 so this gives us a way that maybe we can bring in other resources
24 because a partnership between the private sector and the military
25 has worked on medical research, breast cancer research. It has

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1 helped us in the private sector as well as the military so there
2 may be a way that we could do that on trauma. And again, I am
3 more interested in level 1 trauma because of the need for it in
4 our urban areas.

5 So, again, Mr. Chairman, thank you for the hearing. I think
6 it has been real educational for members and I look forward to
7 working with you on it.

8 Mr. Pitts. Thank you. The chair agrees. And we have heard
9 some very good recommendations and issues that need to be
10 addressed here today and some important information.

11 That concludes the questions of the members present. We
12 will have some follow-up questions in writing, other members may
13 have in writing. We will send those to you. We ask that you
14 please respond. I remind members that they have 10 business days
15 to submit questions for the record, so they should submit their
16 questions by the close of business on Tuesday, July 26.

17 With that, this hearing is adjourned.

18 [Whereupon, at 12:04 p.m., the subcommittee was adjourned.]