

UNITED STATES DEPARTMENT OF DEFENSE

DEFENSE HEALTH BOARD

CORE BOARD MEETING

West Point, New York

Wednesday, August 18, 2010

PARTICIPANTS:

Board Members:

WAYNE M. LEDNAR, MD, PhD

GREGORY A. POLAND, MD

RUSSELL V. LUEPKER, MD, MS

DENNIS O'LEARY, MD

THOMAS J. MASON, PhD

NANCY DICKEY, MD

DAVID WALKER, MD

JOSEPH SILVA, MD

GENERAL (Ret.) RICHARD MYERS

COLONEL (Ret.) ROBERT CERTAIN

WILLIAM E. HALPERIN, MD, MPH, DRPH

JAMES LOCKEY, MD, MS

MICHAEL N. OXMAN, MD

MICHAEL D. PARKINSON, MD, MPH

ADIL SHAMOO, PhD

EDWARD L. KAPLAN, MD

Additional Attendees:

CHRISTINE BADER

COLONEL BEVERLY LAND

COLONEL JOANNE McPHERSON

COLONEL MICHAEL KRUKAR

COMMANDER ERICA SCHWARTZ

LIEUTENANT COLONEL PHILIP GOULD, USAF, MC

LIEUTENANT GENERAL DAVID HUNTOON

## PARTICIPANTS (CONT'D):

## Additional Attendees:

CAPTAIN ROGER LEE

COLONEL WAYNE HACHEY

CDR WILLIAM PADGETT

CDR PATRICK LARABY

CHARLES FOGELMAN, PhD

DR. GEORGE LUDWIG

LITA BERRY

DR. JILL CARTY

CHRISTINA CAIN

MAJOR SCOTT O'NEAL

LISA JARRETT

KAREN TRIPLETT

MARIANNE COATES

DR. STEVEN KAMINSKI

RADM DAVID SMITH

LTC GREG BURBELO

CADET MORGHAN MCALENEY

DR. JONATHAN METZLER

DR. CRAIG POSTLEWAITE

LIEUTENANT COLONEL CHRISTOPHER ROBINSON

DR. DONNA WIENER-LEVY

CAPTAIN MARTHA GIRZ

DAVID SHUEMAKER

OLIVERA JOVANOVIC

JEN KLEVENOW

ELIZABETH GRAHAM

1 P R O C E E D I N G S

2 (9:30 a.m.)

3 MS. BADER: Can I please have everyone  
4 be seated? Thank you.

5 DR. LEDNAR: Thank you, everyone. What  
6 we'd like to do is to open this meeting of the  
7 Defense Health Board.

8 On behalf of Dr. Poland, Ms. Bader, and  
9 the DHB staff, we would like to welcome everyone  
10 here to this meeting and thank you for your  
11 participation.

12 We have several important topics on our  
13 agenda today. It will be important that we try to  
14 stay on time because at least one of our  
15 presenters had his flight canceled and is unable  
16 to be with us here in person, and this is Dr.  
17 Frank Butler, and he's going to be calling in at  
18 the agendaed time, so we want to be respectful to  
19 him for that.

20 We'd ask now, Ms. Bader, could you  
21 please call the meeting to order?

22 MS. BADER: Good morning again. As the

1 Designated Federal Officer for the Defense Health  
2 Board, a Federal Advisory Committee and a  
3 continuing scientific advisory body to the  
4 Secretary of Defense via the Assistant Secretary  
5 of Defense for Health Affairs and Surgeons  
6 General of the Military Departments, I hereby call  
7 this meeting of the Defense Health Board to order.

8 DR. LEDNAR: Thank you, Ms. Bader. And,  
9 now, carrying on in the tradition of the Defense  
10 Health Board, I'd ask that we all stand for a  
11 moment of silence to honor those who we are  
12 privileged to serve, the men and women who serve  
13 our country.

14 (Moment of silence)

15 DR. LEDNAR: Thank you. Please be  
16 seated.

17 This is an open session of the Defense  
18 Health Board and we'd like everyone to know who's  
19 here and an opportunity for people to connect  
20 names and faces. I've encouraged on the breaks to  
21 please welcome someone you haven't met before and  
22 please make them feel welcome and introduce



1 Chair of the Department of Pathology, University  
2 of Texas, Medical Branch.

3 DR. DICKEY: Nancy Dickey, President of  
4 Texas A&M University Health Sciences Center and  
5 member of the Board.

6 DR. MASON: Thomas J. Mason, Environment  
7 and Occupational, Department of Epidemiology &  
8 Biostatistics, USF College of Public Health, and  
9 member of the Board.

10 DR. O'LEARY: Dennis O'Leary, President  
11 Emeritus of the Joint Commission and member of the  
12 Board.

13 DR. LUEPKER: Russell Luepker. I'm  
14 Professor of Medicine and Epidemiology at the  
15 University of Minnesota and a member of the Board.

16 DR. FOGELMAN: Charles Fogelman. I'm  
17 Chair of the Psychological Health Subcommittee  
18 of the Board and an Independent Consultant.

19 CDR LARABY: I'm CDR Patrick Laraby.  
20 I'm here representing the United States Navy  
21 Bureau of Medicine and Surgery.

1 DR. PADGETT: William Padgett,  
2 Headquarters, US Marine Corps.

3 COL HACHEY: Wayne Hachey, Director  
4 of Preventive Medicine & Surveillance.

5 CAPT LEE: I'm Captain Roger Lee, I'm  
6 a representative from the Joint Staff J-4, Health  
7 Services Support Division.

8 DR. LEDNAR: Wayne Lednar, Co-Vice  
9 President of the Defense Health Board and the  
10 Global Chief Medical Office of the Dupont Company.

11 MS. BADER: Good morning. Christine  
12 Bader, Director of Defense Health Board.

13 Col McPherson: Joanne McPherson, Executive  
14 Secretary of the DoD Task Force on the Prevention of Suicide  
15 by Members of the Armed Forces.

16 DR. CERTAIN: Robert Certain, Doctor  
17 of Ministry -- a weird one here. I'm an Episcopal  
18 priest in Marietta, Georgia. My military career  
19 was a B-52 Combat Aviator and Air Force Chaplain,  
20 retired as a Chaplain a long time ago.

21 DR. HALPERIN: Dr. William Halperin,  
22 Chair in the Department of Preventive Medicine at  
23 the New Jersey Medical School and Chair of the

1 Department of Quantitative Methods for the School  
2 of Public Health at the University of Medicine and  
3 Dentistry of New Jersey. I'm on the Board of  
4 Environmental Science and Toxicology at the  
5 National Research Council and Chair the  
6 Subcommittee of Occupational and Environmental  
7 Health of the DHB, retired from Public Health  
8 Service.

9 DR. LOCKEY: James Lockey, University of  
10 Cincinnati and Board member.

11 DR. OXMAN: Michael Oxman, Professor of  
12 Medicine and Pathology, University of California,  
13 San Diego and Board member.

14 DR. PARKINSON: Michael Parkinson, past  
15 President, American College of Preventive  
16 Medicine, currently work with employers and health  
17 care organizations on performance and productivity  
18 improvement, and a member of the Core Board.

19 DR. SHAMOO: Adil Shamoo, University of  
20 Maryland School of Medicine, member of the Core  
21 Board.

22 DR. KAPLAN: Edward Kaplan, Department

1 of Pediatrics, University of Minnesota Medical  
2 School and member of the Core Board.

3 COL KRUKAR: Michael Krukar,  
4 Director, Military Vaccine Agent, representing the  
5 OTSG this morning.

6 CDR SCHWARTZ: Erica Schwartz,  
7 Preventive Medicine/Epidemiology, U.S. Coast  
8 Guard Headquarters Commandant, U.S. Coast Guard.

9 Lt Col GOULD: Philip Gould,  
10 Chief, Preventive Medicine, Air Force Medical  
11 Operations Agency, Office of the Surgeon General.

12 DR. POSTLEWAITE: Good afternoon. Craig  
13 Postlewaite, Force Health Protection and  
14 Readiness.

15 DR. LUDWIG: George Ludwig, Deputy  
16 Assistant for Research and Technology, Army  
17 Medical Research and Material Command.

18 DR. KAMINSKY: Steven Kaminsky, the Vice  
19 President of Research at the Uniformed Services  
20 University.

21 MS. BERRY: Lita Berry, Executive  
22 Assistant for Psychological Health Strategic

1 Operations.

2 DR. CARTY: Jill Carty, Force Health  
3 Protection and Readiness, Psychological Health  
4 Strategic Operations.

5 MS. CAIN: Christina Cain, Support  
6 Staff.

7 MAJ O'NEAL: Major Scott O'Neal,  
8 representing Joint Staff Operations.

9 MS. COATES: Marianne Coates. I'm the  
10 Communications Advisor to the Defense Health  
11 Board, contracted consultant.

12 MS. JARRETT: Lisa Jarrett, Defense  
13 Health Board Staff.

14 MS. TRIPLETT: Karen Triplett, Defense  
15 Health Board Staff.

16 DR. LEDNAR: Thank you. And again,  
17 welcome to everyone here at the meeting with the  
18 Defense Health Board.

19 Ms. Bader now has some administrative  
20 remarks before we begin this morning session.

21 Ms. Bader.

22 MS. BADER: Thank you, Dr. Lednar. I'd

1 like to welcome everyone to this meeting of the  
2 Defense Health Board and to thank the staff of the  
3 Thayer Hotel for helping with the arrangements for  
4 this meeting, as well as all the speakers who have  
5 worked so hard to prepare briefings for the Board.

6 In addition, I'd like to thank my staff,  
7 Jen Klevenow, Lisa Jarrett, Elizabeth Graham,  
8 Olivera Jovanovic, Christina Cain, and Jean Ward  
9 and Karen Triplett for arranging this meeting of  
10 the Defense Health Board.

11 I'd like to remind everyone to please  
12 sign the general attendance roster on the table  
13 outside if you have not already done so.

14 For those who are not seated at the  
15 tables, handouts are provided in the back of the  
16 room for your use.

17 Restrooms are located in the lobby. For  
18 telephone/fax/copies/or messages, please see Jen  
19 Klevenow or Lisa Jarrett. Lisa Jarrett is the  
20 brown in the back of the room, and they can assist  
21 you.

22 Because the open session is being

1 transcribed, please make sure that you state your  
2 name before you speak and use the microphones so  
3 that our transcriber can accurately report your  
4 questions and your responses.

5 Refreshments will be available for the  
6 morning session. We have a catered working lunch  
7 in the meeting room next door where we had  
8 breakfast for the Board Members, Ex-Officio  
9 Members, Service Liaisons, and DHB staff. Lunch  
10 will also be provided for speakers and  
11 distinguished guests.

12 For those looking for lunch options, the  
13 hotel restaurant is open for lunch, and there are  
14 a handful of restaurants located just outside of  
15 the first security gates.

16 The group dinner tonight will be held at  
17 the Painter's Inn and Restaurant located in  
18 Cornwall-on-the-Hudson. A shuttle service will be  
19 provided; please meet in the hotel lobby no later  
20 than 6 p.m. Return transportation from the  
21 restaurant to the hotel will also be provided at  
22 approximately 8:30 p.m. If you have not RSVP'd

1 for the dinner, see Jen Klevenow. The cost of the  
2 dinner is \$26 per person, and in order to  
3 facilitate payment, you are kindly requested to  
4 provide the exact amount in cash to Jen Klevenow  
5 either during the day today or before entering the  
6 restaurant this evening tonight, as our ability to  
7 provide change is very limited. You will then be  
8 provided a dinner ticket for tonight.

9 The next meeting of the Defense Health  
10 Board will be held on November 1 and 2, 1st and  
11 2nd, at the Key Bridge Marriott Hotel in  
12 Arlington, Virginia.

13 Finally, I ask that you please place all  
14 electronic devices inside in silent mode.

15 At this time I'd like to welcome Colonel  
16 Beverly Land to introduce herself. She is now the  
17 new Commander for Keller Army Hospital.

18 COL LAND: Thank you. I appreciate  
19 it.

20 I'm Colonel Beverly Land. Welcome to  
21 West Point. You'll find that this is a fantastic  
22 place and the cadets are just supreme. So, again,

1 welcome.

2 We did experience a power outage, so  
3 we've been busy trying to reschedule patients and  
4 those types of things. Thank you very much for  
5 the invitation.

6 MS. BADER: We're pleased to have you.

7 With that, I'll turn it back over to Dr.  
8 Lednar.

9 DR. LEDNAR: Thank you, Ms. Bader. We  
10 are honored and privileged now to have Lieutenant  
11 General David Huntoon, Jr. joining us at our  
12 meeting this morning.

13 Lieutenant General Huntoon serves as the  
14 Superintendent of the United States Military  
15 Academy. Prior to this assignment, he served as  
16 the Director of the Army Staff at the Pentagon;  
17 46th Commandant at the U.S. Army War College,  
18 Carlisle Barracks, Pennsylvania; Director of  
19 Strategy, Plans and Policy for Army G-3 at the  
20 Pentagon; and Deputy Commandant of the U.S. Army  
21 Command and General Staff College. He has a  
22 Masters of Arts in International Relations from

1 Georgetown University and a Masters in Military  
2 Arts and Sciences from the Command and General  
3 Staff College Advanced Military Studies Program.  
4 Lieutenant General Huntoon's numerous military  
5 awards include the Distinguished Service Medal  
6 with oak leaf cluster, Legion of Merit with five  
7 oak leaf clusters, Bronze Star, Expert  
8 Infantryman's Badge, Parachute Qualification Badge  
9 and the Ranger Tab.

10 Without further delay, we are privileged  
11 to welcome Lieutenant General Huntoon. Sir.

12 LTG HUNTOON: I'll go  
13 around and welcome each Board member to West  
14 Point. Ms. Christine Bader is, obviously, the mother of  
15 one of our great cadets. I understand her spouse was  
16 just promoted to the rank of Brigadier General of  
17 the United States Air Force this week.  
18 Congratulations.

19 MS. BADER: Thank you very much.

\*The following is a summary of LTG Huntoon's comments to the Board:

LTG David Huntoon, Jr., Superintendent of the United States Military Academy at West Point, welcomed the DHB members and stated that the U.S. military force is facing unique stressors and challenges while in its ninth year of conflict in Iraq and Afghanistan. He provided a brief history of the United States Military Academy (USMA), indicating that USMA leadership has the responsibility of ensuring the physical, emotional, and spiritual health of the cadets. LTG Huntoon described the USMA physical program and state-of-the art facilities available to the cadets. He discussed the cadet housing environment and stated that during an H1N1 outbreak, two hundred cadets were isolated to protect the health of those who were not infected.

LTG Huntoon described USMA cadets, stating that approximately 1,200 candidates are accepted each year. He stated that during their time at USMA, leadership is very focused upon providing the cadets with the physical, emotional, and spiritual strength and capabilities they will need in order to have a successful military career. The USMA faculty consists of both alumni and non-alumni and serves as role models for the cadets. LTG Huntoon stated that while at USMA, the DHB should take the opportunity to visit the Kimsey Athletic Center.

Dr. Halperin inquired if the core approach to teaching cadets at USMA could be applied to the civilian environment. LTG Huntoon described the downsizing currently occurring at the USMA due to a decrease in the defense budget and stated that institutions such as the USMA will experience pressure to become more effective and efficient as a result. He stated that the USMA leadership benefits from visiting other academic institutions, both military and civilian universities. Dr. Lednar

inquired if cadets provide feedback regarding their education after they have graduated and are serving in the military. LTG Huntoon stated that the USMA receives feedback from graduates, particularly Captains, Majors, and Lieutenants.

LTG Huntoon described the cultural immersion programs in which USMA cadets participate, including full semesters spent abroad to expose students to the culture and language of foreign countries. He stated that cultural awareness is critical to the cadets' success as leaders. LTG Huntoon described some of the challenges experienced by the U.S. Army, including post traumatic stress disorder (PTSD), traumatic brain injury (TBI), and suicide, and stated that the goal of the USMA leadership is to provide the cadets with the necessary training and capabilities to overcome such challenges.

LTG Huntoon concluded by presenting a brief video regarding the history of USMA.

12 DR. LEDNAR: Thank you, Lieutenant

13 General Huntoon.

14 For all of you those attending this  
15 meeting, we have an opportunity to learn about this  
16 great institution and what they're doing, and I  
17 think there will learning so we can take away to  
18 our work settings about their academia, whether  
19 they're from some of the success that has been  
20 happening here.

21 So, this is really a great opportunity  
22 for us as Board members. We will have an

1 opportunity to meet and interact with some other  
2 cadets tomorrow. Our activities planned for you  
3 are to be able to see some of the programs that go  
4 on here at West Point.

5 But in order to give us a little bit of  
6 a context and introduction, we're now going to  
7 watch a brief film to acquaint us with the history  
8 of the United States Military Academy at West  
9 Point, and it will give us a glimpse of some of the  
10 tours and activities that we'll learn more about  
11 tomorrow.

12 So, with that we'll watch the brief  
13 film.

14 (Video played.)

15 DR. LEDNAR: Thank you. That  
16 combination of General Huntoon's comments and  
17 sharing his thoughts and this video I think is  
18 really going to be an important setup for our  
19 activities tomorrow.

20 What I'd like to do is go now into our  
21 agenda for the Core Board Meeting, and our first  
22 speaker is Major Scott O'Neal.

1                   Major O'Neal is currently assigned to  
2                   the Joint Staff, Joint Operations Directorate,  
3                   Europe and NATO division. A career Army officer,  
4                   Major O'Neal has served in a variety of  
5                   operational armor and calvary assignments, from  
6                   platoon through regiment, in numerous locations  
7                   including Ft. Polk, Ft. Knox, Ft. Hood and  
8                   Germany. His operational deployments include  
9                   tours in Bosnia and Iraq. Major O'Neal's  
10                  education includes a Bachelor of Science from the  
11                  United States Military Academy in International  
12                  and Strategic History and a Masters of Military  
13                  Operational Art and Science from the Air  
14                  University at Maxwell Air Force Base, Alabama. We  
15                  welcome him back to his alma mater here at West  
16                  Point to give us this brief today.

17                  Major O'Neal. Thank you.

18                  MAJ O'NEAL: Thank you, sir. I  
19                  appreciate that.

20                  It's good to be back, especially as I  
21                  said last time, and I think as everybody who has  
22                  served in the Pentagon agrees it's good to be out

1 of that building especially, but if I could just  
2 ask the next time if we could go some place else.  
3 I spent four years getting out of here. I'd  
4 appreciate it greatly. (Laughter.)

5 So, it's good to be back, and it's  
6 always nice to come back to a place you could call  
7 home. It sort of recharges the batteries, so it's  
8 good to be back.

9 Our agenda today -- I know we're running  
10 a little bit behind time. We have a conference  
11 call. But if you have questions either about West  
12 Point in general, I'm fourteen or so years past my  
13 graduation, so I can give you a different  
14 perspective than perhaps General Huntoon, the  
15 Superintendent, or "Supe" as we call him here, can  
16 give you. So, if there's questions with West  
17 Point or professionalism in the Army, I'd be more  
18 than happy to answer them.

19 My charge is to talk about global  
20 operations. There's really three things I'd like  
21 to talk about, a brief update on global  
22 operations. I think it's a well-educated

1 different current events as well as is other  
2 (inaudible) I won't dive into, but I'd like to  
3 touch upon at least the key issues ongoing and  
4 then transition to a thought about  
5 counterinsurgency. I talked about that a little  
6 bit. I'd like to extend that discussion and give  
7 you a different perspective on that, and I have a  
8 closing thought on Iraq.

9 In general, as we sort of use to key  
10 with respect to that (inaudible).  
11 We've shown this slide several times and I think  
12 everybody who's given this gets the brief coming  
13 out of the Joint Staff, J-33 will show you a slide  
14 similar, and it really does show you a world  
15 that's still filled with specific challenges,  
16 strategies down to a tactical level, but most  
17 specifically it shows relationships and it shows a  
18 relationship along geographic regions and now both  
19 the challenges, geographic and combatant commands,  
20 specifically, challenges they face are  
21 interrelated and how now just not one particular  
22 solution can be applied to one particular area

1 without undergoing the ripple effect across the  
2 world as it would be.

3 We'll talk about Iraq and Afghanistan a  
4 little bit later on in the brief, but I'd like to  
5 talk a little bit, at least while we're on this  
6 slide, about Pakistan. And although it's been in  
7 the news, perhaps in some essence we've seen  
8 (inaudible) and the earthquake in Haiti, combined  
9 with the size of the flooding currently going on  
10 in Pakistan. There's a tremendous Department of  
11 Defense, Pakistani government in that that was,  
12 uh, though (inaudible). You might see that in the  
13 newspaper. It's worth noting as we get toward  
14 wintertime in Pakistan, we understand the  
15 health-related consequences of a flood and famine,  
16 the associated diseases that come from them is  
17 worth noting that the strategic relevance of  
18 Pakistan, clear armed country, strategic positions  
19 with Afghanistan, India and the other associated  
20 issues we've had dealing with that country, it's  
21 important to note that perhaps as we go forward  
22 collectively as a body. The first thing I, the

1 importance of (inaudible) to continue at least  
2 know that Pakistani and the importance on that.

3           And just as a side note, obviously,  
4 working the EUCOM and Pacific actions, just a  
5 reminder, Kosovo. We're still conducting  
6 operations in Kosovo. You may or may not have  
7 known that there's fifteen or so people there and  
8 it's drawn down here to about five hundred. The  
9 operation began some years ago. It's finally  
10 starting to have at least the end of the tunnel,  
11 if you will, with respect to Kosovo.

12           Just as a side note. The last time I  
13 talked on the 8th of June, several things I talked  
14 about, the most interesting I think slide was the  
15 charge in the center of this, and some of  
16 the slides are shown to you, as well. But what  
17 was mentioned, I showed the diameters of the  
18 counterinsurgency and the  
19 interrelationships. We talked about the  
20 operational scale that you might see here in  
21 Afghanistan, and as an attempt to display that  
22 confusing, and albeit somewhat irrelevant at times

1 to us in this level, and down to the soldier and  
2 tactical level, the soldier, Marine, or airman, but  
3 there are obviously, when we talk to this  
4 audience, particularly the global operations, it's  
5 specifics, well-educated and informed audience.  
6 We don't have to go into what will be current  
7 events of global operations. Commander Theis, who  
8 is currently in Afghanistan, charged me when I  
9 first took on this position to brief, bring a  
10 different perspective, and I went to his office  
11 and talked to him, and he asked me to bring a  
12 perspective that may or may not be known to this  
13 general group, and it was a perspective that might  
14 give you a "who and what is going on" on a tactical and  
15 operational level for a sense of emotional  
16 connection, a sense of the rest of the story. And  
17 they now, as you read, sort of came up with those  
18 of called up listening to Paul Harvey, and he  
19 always had a cache, short of (inaudible).

20 That's sort of what we're going for in  
21 this brief. I'd like to talk about any, to the  
22 level of my knowledge, of course, and I'll get you

1       an answer if I don't have it for you. But if I  
2       can, what I'd like to talk to you about today is  
3       the rest of the story.

4               The last time I talked you were briefed  
5       on the soldier, the sailor, the airman, what do  
6       they do on a day-to-day basis. It was espoused to  
7       me to one of those individuals, and in particular  
8       a snapshot in time, be it a young Captain going to  
9       pick up a casualty on the night flight on a C-130  
10      and a young (inaudible) doing a visit to the  
11      cancer ward. Chairman to go on health-related visits  
12      trying to enforce one of the things we talked  
13      about on a then medical-related activity in Africa  
14      and how we would help, at least tie the government  
15      of certain traveling African nations to the people  
16      using medical care. So, that's what we talked  
17      about last time.

18             This time I'd like to take it up on a  
19      small level and talk about, I think, a broader  
20      topic, and we talked about it at least in a terms  
21      of the general sense, how do you win a war.  
22      Particularly, how do you win a common insurgency.

1           It's a leader among a large and diverse  
2 group here with respect to institution and  
3 educational universe or environment or industry to  
4 some degree. Everybody here is charged with, to a  
5 degree, with focusing on the organization, trying  
6 to get to a degree, an organization to accomplish  
7 some sort of objective.

8           Well, if you're the leader of a  
9 counterinsurgency in Afghanistan tying some  
10 forty-five countries together for a common  
11 purpose, how do you do that? How is it done?  
12 More importantly, how can a Major on the Joint  
13 Staff and a collective body such as this help that  
14 Commander on the ground accomplish his objectives?

15           It's really trying to have a strategic  
16 dialogue to a level filter to tactical level  
17 exclusion. We talk about all of that. How do you  
18 really do that? (inaudible). General Petraeus has  
19 come up with twenty-four guidelines on counter-  
20 insurgency. I'll let you take a moment to read  
21 them. Although we're not going to go through all  
22 twenty-four, I think it's important how General

1 Petraeus, how he is educating his audience about  
2 it, those members on the ground. How does he take  
3 a strategic (inaudible), the soldiers, Marines on  
4 the ground trying to conduct a counterinsurgency.

5 Here are some of these points. Some of  
6 them may be obvious, some of them may not be  
7 obvious. I'll let you read those through for a  
8 second. The ones in blue I think are particularly  
9 pertinent to this, and I'd like to take a minute  
10 or two and go through those, as well.

11 The first one, and it was the first on  
12 his list, as well, "Secure and serve the  
13 population." It goes without saying it could be  
14 "Protect and Serve" as on the side of the local  
15 police car in the United States. But picture  
16 this. You are walking in your local hometown,  
17 walking through your hometown. You see gun fire,  
18 explosions, foreign people coming towards you.  
19 Your natural sense here in the United States is  
20 that you have a protective force, be it local,  
21 state, regional police forces, of some sort or  
22 military.

1                   Not the case in a lot of third world  
2 countries. Specifically, not the case now, or  
3 it's at least a less significant case in  
4 Afghanistan.

5                   What you see here is a young man with a  
6 brother or a son being protected by the Marines.  
7 Secure the population. Demonstrates both personal  
8 courage. This Marine doesn't probably know much  
9 of this young man or his brother or son, but he's  
10 securing the population.

11                  Now what you have is a loyalty. You  
12 have a loyalty to a common purpose, an  
13 organization and a world and a culture. That  
14 loyalty is vastly dependent on personal courage.  
15 The only thing that could be better from our  
16 standpoint from this picture is as opposed to a  
17 Marine, is an Afghan do it.

18                  But here you see a great example of  
19 secure and serve the population. For those of you  
20 who might have a hard time reading it with the  
21 font, I'll read it. "The decisive terrain is the  
22 human terrain. The people are the center of

1 gravity. Only by providing them security and  
2 earning their trust and confidence can the Afghan  
3 government, being the key word there, and ISAF  
4 prevail."

5 A similar dynamic, if we had a problem  
6 via water related, be it some sort of community  
7 issue, we have a natural sort of way to go about  
8 solving those issues providing a representative, a  
9 Congressman going to a local county board to get  
10 that result.

11 That's not how it happens. So, you take  
12 someone from our culture -- and a question earlier  
13 about cultural confidence is really spot on with  
14 respect to how do we, from our culture, translate  
15 our own understanding of that to a country that  
16 doesn't have that. And it has to begin with an  
17 education and understanding it because culturally  
18 (inaudible). It's taken us several steps back  
19 through Iraq and Afghanistan.

20 What you see here on the ground is  
21 governance. We talked about it in Iraq last time.  
22 For those of you who might remember, a small

1 building, a class of chairs and people sitting  
2 around talking. The first picture, I mean, of  
3 General Petraeus drinking tea. The same dynamic.  
4 That's how you have governance in a lot of places.

5           What we are trying to do is we are  
6 trying to tie a cultural divide, a tribal  
7 organization, a tribal, sort of lawless at times,  
8 area based on family, based on a tribal dynamic, to  
9 a government that is structured not always  
10 necessarily relates. It's almost as if you're  
11 trying get the (inaudible) to come to Congress and  
12 talk. Not necessarily the same. But that's what  
13 the reality is on the ground. And for the cadets  
14 that are here, a lot of them will be facing this  
15 exact same dynamic in a couple of years.

16           Afghanistan has a long history of  
17 representative self-government at all levels, from  
18 the village shura to the government in Kabul.  
19 Help the government and the people revive those  
20 traditions and develop checks and balances to  
21 prevent abuse.

22           Who you vote for, who you spend time

1 with is almost as important as how much time you  
2 spend with them.

3 Foster lasting solutions. I know. I  
4 recently came back from (inaudible) when I was  
5 having a discussion with a representative from  
6 NATO, and we were talking, talking about the  
7 medical component to what we were trying to  
8 facilitate; transition teams, advisors, and  
9 medical dynamics as we move forward in our  
10 relationship with the Afghan Security Forces and  
11 the Afghan government at large. How does the  
12 medical and logistics that were there, often the  
13 longevity lead times in terms of the education, who  
14 are involved with the people conducting to get  
15 those institutions established.

16 He gave me a great case in point. He  
17 talked about an ultrasound sitting in a hospital  
18 in Afghanistan going unused. The United States  
19 spent a lot of time and money, time and effort to  
20 get the ultrasound to Afghanistan and it's not  
21 being used. It's not necessarily on training.  
22 They were training on how to use it. Not

1 necessarily because of will, because they were  
2 afraid if they used it and broke it that they  
3 would upset the Americans who spent so much. They  
4 were also concerned they were going to run out of  
5 petroleum gel to run the ultrasound.

6           If you look at this quote from General  
7 Petraeus, and the sort of guidance, is a hundred  
8 thousand dollar ultrasound machine as important as  
9 perhaps ten thousand dollar renovations of local  
10 clinics, because when center (inaudible) of  
11 people, is that ultrasound as important as a local  
12 hospital in the Taliban controlled area.

13           Tying the government and the services  
14 provided by the government from a national level  
15 to a local level is what we're trying to do.  
16 Because you see here a young child being stitched  
17 up by a local civilian doctor and in a local  
18 clinic that was renovated using funds donated  
19 through the International Security Force in  
20 Afghanistan. Is that more powerful than an  
21 ultrasound and a collective body? Maybe it's an  
22 area of interest. It's of interest as we continue

1 to develop third world countries, because I think  
2 we're going to be in this business for a long time  
3 in an era of persistent conflict.

4 The medical relationship, the medical  
5 dynamic, is essential to get by fostering lasting  
6 solutions.

7 Help Afghans create good governance and  
8 enduring security. Avoid compromises with maligned  
9 factors that achieve short-term gains at the  
10 expense of long-term stability. Think hard before  
11 pursuing initiatives that may not be sustainable in  
12 the long run. When it comes to projects, small is  
13 often beautiful.

14 I'll give you a guess. You drive down a  
15 road here -- New York is probably an exception --  
16 in D.C., without question, is an exception as far  
17 as the temperament of drivers, especially at about  
18 4:30, 5:00 in the morning. The Beltway, without  
19 question, it could be considered a war zone at  
20 times.

21 The idea of being a good guest at how  
22 you drive in a community is a visible symbol to

1       how we represent ourselves. It is an extremely  
2       important dynamic.

3               When I first arrived in Iraq in 2003 I  
4       had a tank. That was my means of conveyance  
5       around the battlefield. A seventy-ton tank sends  
6       a particular message to the population, which at  
7       times is good and necessary and at times it is not  
8       good and necessary. How I drive down the road in  
9       a tank versus how I try to get the (inaudible) at  
10      times or vehicle to the road is extremely  
11      important, and being a good guest is not at how  
12      you drive, but on how you interact with the  
13      population.

14             If you consider via a community home,  
15      somebody comes in, or an environment per se and  
16      how they would treat you has a lot to do with how  
17      you are a representative in what you take away.  
18      Sort of it goes without saying.

19             This last one is walking. May or may  
20      not be self-evident when it comes to it, but when  
21      you think about it in a culture that is diverse of  
22      internet, Facebook, Twitter, there are no Twitter

1 fields in the Taliban or local civilians in, A,  
2 how do you interact with population? Is it by  
3 driving through a twenty-ton vehicle, a  
4 seventy-ton vehicle in some cases, or is it by  
5 standing there, walking through their local  
6 villages and talking to somebody developing a  
7 personal relationship?

8 Know what their kids' names are.  
9 Looking at the food stores and seeing how they're  
10 doing, if there's anything else you can do with  
11 that. Small rewards of cash that you can give  
12 them, all legal, but you say, hey, use this to go  
13 buy more stock to move the market. Macroeconomics  
14 and microeconomics are almost as important as the  
15 village ability to shoot a tank at times and  
16 understanding those dynamics? Always necessary,  
17 but to a degree when you're trying to establish a  
18 sense of community and at least establish a  
19 community (inaudible).

20 So, here he says, "Walk. Stop and don't  
21 drive by. Patrol on foot whenever possible and  
22 engage the population. Take off your sunglasses.

1 Situational awareness can only be gained by  
2 interacting face to face, not separated by  
3 ballistic glass or Oakleys."

4           It's time, really just spending time.  
5 Promoting local reintegration. Actually, I had a  
6 privilege when I was at battalion and to sit down  
7 with General Petraeus. He was the Commander of  
8 portions in Iraq, and we had a conversation on  
9 reconciliation and -- it might be not be  
10 understood, but if you have a group, an organized  
11 group that is an insurgent group, how do you stop?

12           At some point the balance as who were to  
13 come where there are actively recognized and  
14 integrated into the society (inaudible). As  
15 individuals, as regions of particular problem  
16 areas as you're going out there, but it's an  
17 important decision to have, and it's an important  
18 dynamic to consider as you move forward, and you  
19 cannot allow that to go without understanding.

20           So, together with our Afghan partners  
21 you have to identify and separate the  
22 "reconcilables" from the "irreconcilables." And

1       there's a definite degree we have to bring them to  
2       understand. There is a lot of a cultural  
3       understanding of how you can link your part or  
4       wash your hands and there's a level within each  
5       culture that they will allow this to go. And it  
6       might sound crass to say, but at times if they had  
7       killed Americans or international soldiers, that's  
8       one thing. If they kill Afghans, that's another  
9       thing. It might be forgiven that they killed  
10      Americans. Had they killed Afghans, it might not.  
11      Something to understand. Hard pill for us to  
12      swallow at times, but it's something to understand  
13      as a cultural dynamic. It goes without saying  
14      it's an important one to understand.

15                I'll leave with this spot. Really what  
16      you see here is a picture from Iraq. I arrived in  
17      2003. Really, we had three basic objectives, and  
18      these are generalized to a degree for Iraq as a  
19      country.

20                In Iraq, with our help, has to field  
21      terrorists and insurgents, and Iraq is peaceful,  
22      democratic, and secure. Iraqis have institutions

1 and they need to govern themselves justly and  
2 provide security to their own core. Iraq is a  
3 global war and taker to the proliferations of  
4 weapons of mass destruction.

5 March 2003, Baghdad Airport. When I  
6 first arrived there is nothing that didn't have a  
7 U.S. flag, with exception of the green Army  
8 helicopters, which were a nice sight from time to  
9 time. In August of 2010, here you see an Iraqi  
10 Airways plane landing at Baghdad International  
11 Airport with full ground support.

12 We are at a strategic point of support  
13 in Iraq. Although it was on the nightly news the  
14 other night might be how you see (inaudible). It  
15 is not a victory parade necessarily. It is not a  
16 capital that has been received. An Army has been  
17 depleted in the field, but it is a slow, gradual  
18 decrease in forces over time to where you might  
19 see more discussion on the nightly news on whether  
20 or not Lindsay Lohan will be on probation or Tiger  
21 Woods' golf swing might be misaligned than you see  
22 about news in Iraq.

1                   That has happened over the course of  
2 time. Maybe that is a signal of at least an  
3 acceptance as if it were on the right track  
4 towards victory.

5                   This 31st of August we will have 50,000  
6 soldiers on the ground in Iraq and no more combat  
7 operations. That's half as much in 2003. Iraqi  
8 Security Forces that were nonexistent in March of  
9 2003, now will number 400,000, zero to 400 plus  
10 thousand in a little over seven years. That's a  
11 pretty significant contribution both on the  
12 Iraqis' and the Coalition's efforts.

13                   By December 31st of next year, the United  
14 States will be out of Iraq. We're still in  
15 Germany, we're still in Japan, we're still in  
16 Kosovo, but we'll be out of Iraq.

17                   So, for the goodness that has been going  
18 on and all the things that may or may not be  
19 caught in the nightly news cycles, it's worth  
20 saying, the time and effort to maybe understand  
21 what has gone on in Iraq is perhaps what needs to  
22 go on in Afghanistan, has continued to go on in

1       Afghanistan.  Although you won't see a victory  
2       parade, but you will definitely see a gradual  
3       close, and, hopefully, a homecoming here of sorts.  
4       I think it deserves it to be said cautiously, job  
5       well done.

6                        So, with that, I know we're running  
7       short on time, so I open myself up for questions  
8       and I appreciate your time.

9                        DR. LEDNAR:  Thank you, Major O'Neal.  
10       Any questions for Major O'Neal?  Dr.  
11                        Walker.

12                       DR. WALKER:  I think I should have asked  
13       General Huntoon this question, but you've been in  
14       theater, and I recently was reading the book  
15       "War."  Maybe others have read that, somebody  
16       embedded with a forward unit in Afghanistan on the  
17       Pakistan border.

18                        And you know we're hearing about the  
19       cadets here and how they're trained, and you were  
20       talking about how we might best work with the  
21       population.  How do you train people to do that?  
22       You know, you've got soldiers out there who are

1 taking fire and we're asking them to walk down the  
2 street. You've got new soldiers out there who are  
3 taking fire and we're asking them to walk down the  
4 street. You've got new Lieutenants who are not  
5 always favorably reviewed by the enlisted people  
6 and suddenly they're commanding. How do you make  
7 that transition?

8 MAJ O'NEAL: I can tell you from my  
9 personal experience -- and I have not read "War."  
10 It's been recommended to me. It's on my "To Do  
11 List," as well. But with respect to that  
12 particular thing, I can't tell you.

13 Now, if we got ready for several  
14 deployments, one thing we would do is we would  
15 engage a, someone that is called a cultural  
16 advisor. It was an Iraqi who has lived mostly his  
17 entire life in Iraq, and we brought him in early  
18 and we started -- this is a year plus out before  
19 we were deployed. What he did was cultural  
20 awareness, language classes, and then he went on  
21 to serve as our sort of political advisor of  
22 sorts, a cultural advisor as we were deployed.

1                   So, what we had in our training  
2 associated with that was an understanding from a  
3 true Iraqi, not an educated American who  
4 understood Iraqi dynamics, an Iraqi who could say,  
5 this is how you need to handle this situation, or  
6 this is how the situation should be pursued.

7                   This is specifically how you introduce  
8 yourself, "Hi, y'all" or "How you doing?" or --  
9 it's a colloquialism. Something that simplistic  
10 as to how you would treat the dynamics and, in  
11 turn, how you treat women, how you treat local  
12 tribes versus government officials.

13                   He could also give us unfiltered advice,  
14 not Shiite, not Sunni, not any sort of tribal  
15 affiliations, sort of what he was seeing and  
16 hearing was in our best interests.

17                   It's a constant adaptation of learning.  
18 You don't simply start and stop learning. When  
19 you get to the ground because you simply have to  
20 understand what the environment you're in and  
21 actually have to learn to participate. You have  
22 to learn. You learn about trusting the right

1 people, be it the local tribe or be it a local  
2 elected politician. It could be security forces  
3 you're aligned with. You have to find somebody to  
4 trust. It's a consistent education. It's not  
5 once I'm done or a slide show that you're now  
6 Iraqi culturally aware. It's something you have  
7 to constantly work on as you would any perishable  
8 skill, military or not.

9 DR. LEDNAR: Any other questions for  
10 Major O'Neal?

11 Major O'Neal, thank you for coming back  
12 to us at West Point and giving us this brief and  
13 the work you're doing. We look forward to an  
14 update at the next meeting.

15 MAJ O'NEAL: Yes, sir. Thank you.  
16 It's a remarkable institution. I hope you enjoy  
17 your time. Thank you.

18 DR. LEDNAR: What we'll do now is, we  
19 will take a break, and we will take a break for  
20 twenty minutes and then we'll resume with a brief  
21 by Dr. Frank Butler, who will be joining us by  
22 telephone. So, if we can be back in our seats in

1 twenty minutes from now. Thanks.

2 MS. BADER: If you can be back like by  
3 11:10. Thank you very much.

4 (Recess)

5 MS. BADER: Can I please have everyone  
6 be seated? Thank you.

7 DR. LEDNAR: If everyone would please  
8 take your seat. Okay. If we can, we'll  
9 reconvene.

10 Our next speaker is joining us by  
11 telephone, Dr. Frank Butler.

12 Dr. Butler, as we all know, is the Chair  
13 of the Tactical Combat Casualty Care Work Group of  
14 the DHB Trauma and Injury Subcommittee, as well as  
15 a member of that Subcommittee.

16 Dr. Butler is a retired Captain and a  
17 former Navy SEAL. Some of us on the Defense  
18 Health Board actually have had a chance to see  
19 what it takes to be a SEAL. Dr. Butler has served  
20 as the Task Force Surgeon for a Joint Special  
21 Operations Counterterrorist Task Force in  
22 Afghanistan.

1                   He is an ophthalmologist by professional  
2 training and is a regular and significant  
3 contributor to the work of the Defense Health  
4 Board. Dr. Butler's materials that he will be  
5 talking from today are in our binders and can be  
6 found in TAB 3.

7                   So, we'll see if we've got the  
8 technology supporting us. And, Frank, are you  
9 connected with us? Dr. Butler?

10                   (No response.)

11                   MS. BADER: Jen called him. We have him  
12 on another line. Hi, Frank? Frank?

13                   MS. KLEVENOW: He's dialing in right  
14 now.

15                   MS. BADER: Okay. So, we'll hear him  
16 through here?

17                   MS. KLEVENOW: Yes.

18                   MS. BADER: Hi, Frank. We've got you.  
19 Welcome to the meeting.

20                   DR. BUTLER: Thank you. I guess we had  
21 to swap access lines.

22                   MS. BADER: We've got two mikes up

1       against you so we can hear you loud and clear.

2                   DR. BUTLER: Good. Thanks, Christine.

3                   Before I start off, my apologies and  
4 those at Delta Airlines for my not being there  
5 with you folks. I do apologize for that.

6                   If we could shoot to the second slide  
7 here. What we're going to do this morning is talk  
8 about two proposed changes to the TCCC Guidelines  
9 that came out of the 3-4 August meeting of the  
10 Committee that was held in Denver recently, and  
11 the first is on hypothermia prevention. The  
12 second is on fluid resuscitation mostly on  
13 tactical evacuation care.

14                   So, if you go to the next slide and just  
15 jump right into the hypothermia issue. This text,  
16 as you see, is from the new addition of "The PhD"  
17 that is currently at press and will be out in  
18 November, and I will say in the interest of full  
19 disclosure this is my text. I just would draw  
20 your attention to the line that is highlighted in  
21 red. When we talk about hypothermia on the  
22 battlefield, generally, we're not talking about

1 dying of exposure to hypothermia, we're talking  
2 about how you bleed to death hypothermia.

3 Next slide, please. And this is one of  
4 the slides from our teaching curriculum. The  
5 point we make to the student is, even a small  
6 decrease in body temperature can interfere with  
7 blood clotting and increase the risk of bleeding  
8 to death, which is the most common reason people  
9 die in the battlefield.

10 To die of exposure you have to drop your  
11 core temperature four or five degrees centigrade  
12 to knock out your coagulation systems to get --  
13 you only have to drop your core temperature about  
14 one degree centigrade.

15 Also, casualties who are in shock are  
16 unable to generate body heat effectively because  
17 the tissues are hyperfused, so that complicates  
18 the problem. In addition, helicopter evacuations  
19 increase body heat loss. So, we emphasize that  
20 it's much easier to prevent hypothermia than to  
21 treat it.

22 MS. BADER: Excuse me, Frank --

1 DR. BUTLER: The next slide is a pretty  
2 compelling slide of why hypothermia is -- why a  
3 risk is greater in helicopter evacuations. If you  
4 add the --

5 DR. LEDNAR: Frank --

6 MS. BADER: Excuse me, Frank. I'd just  
7 like to make an announcement that the -- Frank  
8 updated his slides, so these are not the slides  
9 that you have in your binder. So, these are  
10 updated slides within the past day or two.

11 Thank you. I'm sorry, Frank. Go ahead.

12 DR. BUTLER: Yes. It's my fault. I  
13 should have mentioned that I didn't take any out  
14 but I added a couple that I thought would provide  
15 some additional illustration, and I think this is  
16 the first of those.

17 But for those of you who have flown in  
18 weather relating aircraft, it's cold up there and  
19 you have a pretty significant wind chill as the  
20 wind rushes past the open door. If you notice,  
21 this casualty is largely exposed. This is a good  
22 illustration of how not to keep a person from

1 getting hypothermic during evac.

2           So, the next slide. This is the text  
3 pending the current change on hypothermia from  
4 prevention -- I'm sorry. This is a list of the  
5 reasons that we thought that we needed to change  
6 the Guidelines.

7           First off, combat medics have noted that  
8 the previously recommended hypothermia prevention  
9 blanket, the Blizzard Survival Blanket, it did  
10 wrap up the casualty well, but it prevented you  
11 from gaining access to the casualty to care for  
12 him or her.

13           In addition, the previously recommended  
14 Hypothermia Prevention Cap had a bad habit of  
15 blowing off when you came into a rotor wash from a  
16 helicopter.

17           And, so, a new hypothermia prevention  
18 blanket has been developed that allows easier  
19 access to the casualty and incorporates a hood  
20 into the blanket, eliminating the need for a cap.

21           If you look at the next slide, I put the  
22 old system in here. If you look at the bottom

1 left you'll see the little cap that was part of  
2 the system and on the right you see the Blizzard  
3 Survival Blanket.

4           If you go to the next slide, this  
5 illustrates the new heat reflective shell that is  
6 proposed to replace the Blizzard Blanket when it's  
7 available, and there has been incorporated a hood  
8 in the ensemble. It's hard to see from this  
9 picture, but you also have a Velcro zipper  
10 arrangement that allows you to open it up and have  
11 access to the casualty.

12           So, the next slide, the current  
13 Guidelines say, as you see here -- this is slide 9  
14 -- the first step in prevention of hypothermia is  
15 to minimize the exposure to the elements. Don't  
16 take off the casualty's clothes.

17           The second step is to replace wet  
18 clothing with dry, if possible.

19           The third step is to apply the  
20 Ready-Heat Blanket to the torso.

21           This is the little blue blanket that you  
22 saw in the previous slides that actually generates

1       some active heat through a chemical reaction, and  
2       that goes underneath the Blizzard Survival  
3       Blanket.

4                So, after the Ready-Heat Blanket is in  
5       place, you put on the Blizzard Survival Blanket and  
6       then you put the Thermo-Lite Hypothermia  
7       Prevention System Cap on the casualty's head.

8                Items F and G just say that if there are  
9       other ways that can be used to help conserve the  
10      casualty's heat, especially in the absence of the  
11      recommended equipment, use what you have.

12              Looking into the Tactical Evacuation  
13      phase of care, it is the same for this phase with  
14      the exception of Item D, where we mention using an  
15      IV fluid warmer. At the time this Guideline was  
16      written, the preferred fluid warmer was the Thermal  
17      Angel.

18              And then it notes that there is wind  
19      chill in these helicopters, so it's a good idea to  
20      protect the casualty from wind chill, if at all  
21      possible.

22              So, looking to the next slide you'll see

1 in red the proposed change. So, in Item B, we  
2 still say replace the wet clothing with dry, if  
3 possible. But we add a provision that says, "Get  
4 the casualty off the ground onto an insulated  
5 surface as soon as possible."

6 The ground is a huge heat sink, and if  
7 you leave the person on the ground, that will cause  
8 them to lose conductive heat. So, if you put them  
9 on a sleeping bag or something that reduces the  
10 heat loss to the ground.

11 Item C says continue to use the  
12 Ready-Heat Blanket from the Hypothermia Prevention  
13 and Management Kit (HPMK) to the casualty's torso  
14 and then cover the casualty with a new  
15 Heat-Reflective Shell (HRS) that was just  
16 displayed. The next slide, Item E, because of the  
17 -- take a step back. These systems have been  
18 tested to the ISR, the Institute of Surgical  
19 Research, to show if their efficacy of preventing  
20 loss of heat (inaudible) and the Heat-Reflective  
21 Shell was found to be essentially equivalent to  
22 the Blizzard Survival Blanket.

1           So, if you don't have a new device, the  
2   Blizzard Survival Blanket is still usable and  
3   better than using a wool blanket or something else  
4   that would be handy.

5           And then item E, if you don't have the  
6   above items, use dry blankets, poncho liners,  
7   sleeping bags, or whatever else you have to do the  
8   best that you can to keep that casualty from  
9   becoming hypothermic. If you are able to warm  
10  fluid in tactical field care, that is a good idea,  
11  especially if you're giving relatively large  
12  volumes.

13           Moving to the Tactical Evacuation Care  
14  phase, the first two items are the same, B and C,  
15  or identical to what we just covered.

16           Moving to the next slide, the D and E  
17  are identical to what we just covered, but there  
18  are now multiple fluid warmers out there, and there  
19  is not a definitive study that says one fluid  
20  warmer is better than the other. So, there's just  
21  a generic provision that says use a fluid warmer,  
22  if possible, to warm the IV fluids that are being

1 administered to the casualty.

2 So, I will stop at this point and see if  
3 there are any questions that I could answer on  
4 this topic before we move on.

5 DR. LEDNAR: Thanks, Frank. This is  
6 Wayne Lednar. If I can start with a question.

7 If this new system that you're  
8 describing for us is introduced, are there data to  
9 show that, in fact, it does a better job of what  
10 we'd like it to do than the former system, the  
11 combination of HRS and Blizzard Survival Blanket?

12 Clearly, there's the logistics of rotor  
13 wash, you know, blowing the protective blankets  
14 away, but are there data to show that it really  
15 supports the therapy of preventing hypothermia?

16 DR. BUTLER: I've included some back-up  
17 slides that have a very interesting series of  
18 studies that was done at the Institute of Surgical  
19 Research where they used a model that was based on  
20 70 kilograms of dialysis fluid that was warmed to  
21 room temperature and then allowed to cool.

22 There was a study group where there was

1 no intervention used, and there was a comparison of  
2 different active and passive interventions that  
3 were tested, and they found that the original HPMK  
4 or Hypothermia Prevention and Management Kit was  
5 better than most of the other alternatives or all  
6 of the other alternatives, and that the  
7 Heat-Reflective Shell essentially is the same as  
8 the original HPMK. It wasn't quite as good, but  
9 there was no significant statistical difference,  
10 and those slides we can show if we have to.

11 DR. LEDNAR: Frank, Dr. Kaplan has a  
12 question.

13 DR. KAPLAN: This is Ed Kaplan. As you  
14 go along, would you mind commenting on how these  
15 Guidelines may differ either being ahead of or  
16 behind what is commonly used in civilian  
17 situations in this country, just for perspective?

18 DR. BUTLER: You know, that's such a  
19 great question. I will say that the material that  
20 you're going to see here or that you are seeing  
21 here is included in the book that's used to train  
22 the civilian emergency medicine people in the

1 country. It is much less of a problem for most  
2 urban areas because of the extremely short  
3 transport time, but there has been several papers  
4 in the civilian literature that are referenced in  
5 the new chapter in the "PhD" handout that focus on  
6 rural areas and wilderness areas and the need to  
7 prevent hypothermia in those occasions.

8 So, I think this is very much in tune  
9 with what the civilian literature is saying, often  
10 in austere environments in the civilian sector.

11 DR. KAPLAN: Thank you.

12 DR. LEDNAR: Dr. Lednar again. And Dr.  
13 Luepker.

14 DR. LUEPKER: You know, you've mentioned  
15 this as an old kit. You've also talked about a  
16 few degrees altering clotting properties.

17 Do either of these today do enough to  
18 protect people in clotting or is this area a  
19 further technological advance? I mean, if these  
20 are used properly, is the problem solved?

21 DR. BUTLER: Sir, I was not able to hear  
22 that very well. Is it possible to repeat that

1 question?

2 DR. LUEPKER: Yes. Do either of these  
3 devices, the old or the new, retain body heat  
4 adequately for the goal of preserving clotting  
5 function or is some other technological advance  
6 needed?

7 DR. BUTLER: There are no other  
8 technologies that I'm aware of that have been  
9 fielded for pre-hospital use that compete  
10 effectively with the kit that's currently fielded  
11 by the Army.

12 There's a study that's about to come out  
13 that is going to describe the most commonly used  
14 device in the Armed Forces at present, and that is  
15 the old world cavalry blankets, and the ISR data  
16 definitively shows that those old world blankets  
17 are minimally effective than nothing at all.

18 So, I think that we are still, even  
19 though if the Guidelines have been in place for a  
20 while, for whatever logistics ran, there has been  
21 very much an incomplete fielding of this  
22 hypothermia prevention technology, uh, to date

1 despite -- I mention even a, uh -- this is one of  
2 the few areas of TCCC that was specifically broken  
3 out by Dr. Winkenwerder when he was Affairs and  
4 recommended to the Services. That was still  
5 incompletely (inaudible).

6 DR. LEDNAR: This is Wayne Lednar. This  
7 is a follow-up to Dr. Luepker's question.

8 What I didn't hear was an answer if any  
9 of the fielded systems prevent body heat loss  
10 sufficiently so that blood clotting is sustained  
11 or do we need something that we don't have yet,  
12 further development?

13 DR. BUTLER: There is data that shows  
14 that AFDMB has access to the Joint Theater System  
15 Trauma Systems Director's monthly report, but they  
16 track the number of hypothermal prevention or  
17 hypothermic patients, and although there has been  
18 a distinct increase or -- I'm sorry -- a decrease  
19 in the number of hypothermic patients presenting  
20 since the Health Affairs memo came out, the data  
21 that I've seen is incomplete to effectively  
22 document that if it's due to any one system.



1 is a physics issue. So, clearly, if we can do  
2 better that would be great, and one degree is all  
3 you need to effectively shut down the clotting  
4 system. We would never have guessed in the desert  
5 that this was going to be an issue.

6 DR. LEDNAR: Okay. Dr. Lockey and Dr.  
7 Kaplan.

8 DR. LOCKEY: Jim Lockey. I just have a  
9 couple minor comments.

10 When I looked at your slides before I  
11 got here, and again today, you say that replace  
12 whenever possible with dry clothing.

13 I've always been impressed with some of  
14 the things I've been involved with in emergency  
15 medicine, that if you sweat and then you're exposed  
16 to sixty or seventy degree temperatures you get  
17 hypothermic very quickly, and I was wondering  
18 whether that "replace wet clothing" could be a  
19 little more forceful, "remove wet clothing and  
20 replace with dry clothing or dry blankets when  
21 possible," rather than -- Think about it. I'd  
22 just like your comments on that.

1                   DR. BUTLER: That was a little difficult  
2 to hear, as well.

3                   DR. LOCKEY: I was wondering whether the  
4 "replace wet clothing" should be more forceful and  
5 you "should remove wet clothing and replace with  
6 dry clothing and blankets when possible," rather  
7 than "replace wet clothing."

8                   I'm always been impressed by if you're wet  
9 and you get in fifty, seventy degree temperatures,  
10 you get hypothermic very quickly. You can't  
11 preserve yourself.

12                   So, the question is should you just say  
13 "remove wet clothing and replace with dry  
14 clothing" as a more forceful statement?

15                   DR. LEDNAR: Could you hear Dr.  
16 Lockey's repeat of the question?

17                   DR. BUTLER: Yeah, I think that I  
18 earlier -- there was a question about replacing  
19 the clothing, but I wasn't able to hear all of it.

20                   DR. LEDNAR: Can I try perhaps  
21 rephrasing on this microphone Jim's question?  
22 And, Jim, keep me honest.

1                   Jim is asking, Frank, for your opinion  
2           about the wording of the recommendations having to  
3           do with wet clothing in terms of perhaps  
4           strengthening that statement to suggest, if  
5           possible, to remove the wet clothing and then  
6           cover with something that's dry, either clothing  
7           or a blanket, for the reason that if there's  
8           moisture to the skin and the person then gets into  
9           a situation where that evaporates, the rapid  
10          cooling even to 70 degrees Fahrenheit, 60 degrees  
11          Fahrenheit -- this is without elevation in a  
12          helicopter and rotor wash -- you become  
13          hypothermic so quickly, that would it be, in fact,  
14          a better recommendation of, if possible, to remove  
15          wet clothing.

16                   So, he's just asking now for your  
17          comments on that.

18                   DR. BUTLER: Yes, thanks for the brief  
19          clarification on that.

20                   You know, in practice, a unit that is  
21          actively assaulting a target is unlikely to be  
22          keeping significant changes of clothing. So, it

1 is perhaps the exception rather than the rule that  
2 they will have a change of clothes available on  
3 the battlefield.

4 But, you know, if there is wet clothing  
5 in the tactical field care and none of these  
6 things happen again under fire, when you're in a  
7 gun fight, you're in a gun fight and you're not  
8 focused on hypothermia prevention. However, when  
9 the gun fight is over, especially if you have  
10 vehicles nearby, as we do constantly -- One of the  
11 unique things about this conflict is that most of  
12 the forces in contact are getting there by  
13 vehicle, if not universally true, but it's more  
14 true now than it has been in the past. So, if  
15 they are available, then that is a good option.

16 The question is if they're not  
17 available, would they be better served to have  
18 their wet clothing removed and just be wrapped in  
19 the Blizzard Rescue Blanket or the new HRS, which  
20 is the Ready-Heat. That is a question I think  
21 that has not been addressed from a research  
22 standpoint, but there would be a concern about,

1       you know, what is the effect of having somebody  
2       who doesn't have anything on under the Blizzard  
3       Rescue Blanket or the HRS and having the, uh, you  
4       know, then exposed to the elements with only that  
5       protection. I think that the answer to that has  
6       not been addressed by any kind of study that I  
7       know of.

8                   DR. LEDNAR: Frank, this is Ed Kaplan.

9                   DR. KAPLAN: Ed Kaplan again. A short  
10       question.

11                   Are these recommendations going to be or  
12       have they been adopted across Services? And, if  
13       so, that's fine. If not, could you comment on why  
14       not?

15                   DR. BUTLER: That's definitely a great  
16       point. As we look at these Guidelines, sometimes  
17       we are reading the Services, sometimes one of the  
18       Services will get out in front of a particular  
19       issue and the TCCC Committee will work at what a  
20       particular Service has done and make a change that  
21       reflects our thinking that the Service is on the  
22       right track. And this is a good example.

1           The Army has already incorporated the  
2           new Hypothermia Prevention and Management Kit in  
3           their vehicle kits preempting input from the TCCC  
4           Committee just based on their Service's expert  
5           opinion that this is an equivalent or better bit  
6           of technology for the situation where you can put  
7           your equipment on a helicopter and vehicle.

8           The new equipment is heavier and it has  
9           not been incorporated -- the new blanket has not  
10          been incorporated into the medical kits that are  
11          now carried by combat life savers or medics.

12          So, that is just an indication that  
13          sometimes we're ahead of the Services, sometimes  
14          we're behind, one or two of the Services and the  
15          Guidelines.

16          There is also, in the back-up slides, a  
17          review that was just finalized at the last meeting  
18          that lists all of the equipment recommended by  
19          TCCC and which Services have it and which Services  
20          don't, and we have just in the last week sent that  
21          to the Services for them to review.

22          So, I will give you the Reader's Digest

1 version of what it says. Basically, the Army and  
2 Special Operations have almost completely  
3 incorporated the equipment recommended by the TCCC  
4 Guidelines. The Air Force and the Marines are a  
5 bit behind in that category, but they were at the  
6 meeting a week ago and they are acutely aware  
7 that, you know, they are behind and have  
8 represented to the Committee that they are in the  
9 process of revising their medical sets to  
10 incorporate all of the equipment.

11 DR. KAPLAN: Thank you.

12 DR. LEDNAR: Dr. Oxman.

13 DR. OXMAN: Frank, Mike Oxman. First of  
14 all, I have to commend you again for your  
15 leadership here. I think it's very impressive.

16 In terms of getting the people in the  
17 field educated in the proper use of this new  
18 equipment, how successful are we so far and what  
19 are plans?

20 DR. BUTLER: So, what will happen is  
21 once the Core Board has made a decision, we will  
22 post the updated Guidelines onto the Military

1 Health System website and send out an announcement  
2 that a change has been incorporated, and we will  
3 have our training materials updated within,  
4 typically, two weeks after the Board makes its  
5 decision.

6 We are working closely with the Defense  
7 Medical Material Program Office to try to fast  
8 track the new changes into the Services. But I  
9 will just, once again, say that what the Services  
10 feel is up to the Services, and absent, you know,  
11 some very strong wording out of Health Affairs,  
12 the Army and the Navy and the Marines and the Air  
13 Force make their decisions independently, and  
14 although they have a very good track record of  
15 following what TCCC is doing now, it is still a  
16 Service decision.

17 DR. LEDNAR: Are there other questions  
18 for Dr. Butler about the hypothermia prevention  
19 question? Dr. Dickey.

20 DR. DICKEY: Nancy Dickey, Frank. The  
21 question is, what kind of progress are we making?  
22 We've talked here on the Board a couple times

1       about tracking the interventions that occur on the  
2       field. It would seem that that would be the ideal  
3       way for us to at least begin to answer the  
4       question of whether we're having a significant  
5       impact with any particular intervention. And, so,  
6       I wondered if this sort of information has a check  
7       mark on the field combat data collection and  
8       whether we're improving that data collection.

9               DR. BUTLER: Yes, ma'am. Thank you for  
10       reducing that point.

11              Les Cogwell and the Ranger Pre-Hospital  
12       Trauma Registry paper that he has written based on  
13       their experience with the Ranger Pre-Hospital  
14       Trauma Registry is in a semi-smooth draft form and  
15       will be the first large paper to come out of this  
16       war that documents really with any detail at all  
17       what is being done at the first responder level.

18              As the Board knows the Joint Theater  
19       Trauma Registry is a terrific set of data, but the  
20       really accurate data maintained by the Joint  
21       Theater Trauma Registry doesn't start often times  
22       until their casualty reaches Level 3 and the

1 trauma nurse coordinators are there to understand  
2 and tell the data.

3           So, it is the Rangers who have led the  
4 way. And, uh, the TCCC Committee and the Board  
5 have urged the Department to formalize the use of  
6 very simple TCCC casualty cards that the Rangers  
7 pioneered. I would say that that is still  
8 incompletely done. It is certainly gaining  
9 traction in the Army thanks to the efforts of  
10 Lieutenant Colonel France and the Army Vice Chief  
11 of Staff. I would not say that that effort has  
12 been matched by the Marines and the Air Force to  
13 date.

14           DR. LEDNAR: Any other questions or  
15 comments for Dr. Butler on the hypothermia  
16 prevention?

17           What I might suggest, Dr. Butler is  
18 bringing two questions to the Board. This, the  
19 first, and while it's fresh in our minds I would  
20 propose that we understand the recommendation that  
21 Dr. Butler is bringing to the Board and if there's  
22 any further discussion and then we vote before we

1 go to the second question. Is that okay?

2 So, Frank, I'll suggest and see if you  
3 agree that really what you are proposing to the  
4 Board is the rewording that you've shown us on the  
5 slides here in the room today in terms of  
6 preventing hypothermia. Is that a fair statement  
7 of what you are asking the Board to comment on?

8 DR. BUTLER: Sir, that's exactly  
9 correct.

10 DR. LEDNAR: Okay. So, Frank has taken  
11 us through this material and we've seen the  
12 proposed changes in red.

13 Do I have a motion for a vote? Dr.  
14 Kaplan. Okay. Dr. O'Leary. Any further  
15 discussion about the proposed change that we're  
16 being asked to vote on? Any questions or  
17 clarifications?

18 Dr. Dickey.

19 DR. DICKEY: Nancy Dickey. I'd like to  
20 hear a little more discussion about whether the  
21 issue on Recommendation 7 should be separated,  
22 "removing wet clothing," period, "Replacing with

1 dry clothing, if possible."

2 The way it's currently worded ties those  
3 two in only together, and I would think that at  
4 least on the field it may well be interpreted as I  
5 don't have dry clothing, therefore, I don't take  
6 off the wet clothing. I'm not sure I know where I  
7 would weigh in on that, but I think it's an  
8 extraordinarily valuable question that Dr. Lockey  
9 has.

10 DR. LEDNAR: Frank, did you hear Dr.  
11 Dickey's question about how the one recommendation  
12 is currently set up sentence structure wise and  
13 how it might be, in fact, strengthened with a  
14 change?

15 DR. BUTLER: Right. Uh, yeah. I think  
16 that as you look at the wording in these proposed  
17 changes, one of the real challenges is to not only  
18 capture the key concepts. I think there's been  
19 agreement from both the Board and the TCCC  
20 Committee on what the concepts are. How best to  
21 express those in specific words to transmit them  
22 to, you know, a twenty-year-old corpsman or medic

1 in the field is the challenge, and I think that  
2 the wording that you see currently reflects the  
3 fact that tactically, sometimes it's just not able  
4 to be done.

5 And, so, if you don't have replacement  
6 clothing, I'm going to say that it's probably a  
7 bad idea to be dragging a, you know, a new  
8 casualty around the battlefield with just his  
9 Blizzard Rescue Blanket for protection, despite  
10 the fact that you know it may have a negative  
11 impact on heat loss, you know, there is protection  
12 from, you know, lots -- all of the other hazards  
13 that are on the battlefield.

14 So, I don't have any better wording to  
15 put in there at the moment. If the Board wishes  
16 me to take this back to the Committee and revisit  
17 that, but I think that what's there now reasonably  
18 reflects what is feasible and what's not on the  
19 battlefield.

20 DR. LEDNAR: What we have here, Frank,  
21 in the room is we put back up on the screen the  
22 wording that we're talking to, which is

1 Recommendation 7B --

2 DR. BUTLER: Right.

3 DR. LEDNAR: -- and it's worded, I think  
4 the inclusion of the word, "if possible," is a  
5 pretty important optional bit of guidance and in a  
6 tactical situation in a time and protection of not  
7 only the casualty, but the responders is really  
8 paramount. So, adding extra steps to do this may,  
9 in fact, not be such a good idea for everyone's  
10 welfare.

11 Yes, Dr. Kaplan.

12 DR. KAPLAN: Ed Kaplan. Is it  
13 appropriate that in the accompanying letter that  
14 goes with a recommendation such as this that there  
15 be some statement if the Board wishes about the  
16 fact that there be an attempt made for uniform  
17 application or implementation of these across the  
18 Services?

19 I'm concerned, and if I understood Frank  
20 correctly, there are some -- I think he uses the  
21 word "lagging" in several Services. If this is as  
22 good as we think it is -- if it's optimal, let me

1 put it that way, if it's the best, is it  
2 appropriate for the Board to make any comments  
3 about that or is that a given?

4 DR. LEDNAR: Frank, were you able to  
5 hear Ed's question?

6 DR. BUTLER: I did. Let me just take  
7 this opportunity to get off of the slide that I  
8 was on previously, and if we could get that or  
9 whoever is running the slides to go to Slide 81,  
10 which is in the back-up slides.

11 DR. LEDNAR: There's a collective sigh  
12 around the table. We didn't look through  
13 eighty-one slides.

14 DR. BUTLER: Right. It is in the -- I  
15 did not include the back-up slides. Uh, actually,  
16 let's go to Slide 82. We should be able to put  
17 that up on the board for you even though it's not  
18 in your handouts.

19 MS. BADER: Thanks, Frank. It's up.

20 DR. BUTLER: Right. So, this is, uh --  
21 this was done with the -- you see the logo of PMPO  
22 up there, a tremendous help from them in finding

1 out who's got what on the battle-field.

2 On the left-hand side you see a list of  
3 what we consider the relatively critical items and  
4 TCCC recommendations. Across the top of the  
5 chart, the first column is the Army 68 Whiskey.  
6 That is the basic Army medic. The second column  
7 is the Marine Corps Combat Assault Pack. That is  
8 what we give Marine corpsmen or Navy corpsmen  
9 supporting the Marines going into combat. The  
10 third column is the Air Force Para Rescuemen or  
11 PJ's who are really the all-around combat medics  
12 in the Air Force. And then last you have the  
13 Special Operations Advanced Technical  
14 Practitioner.

15 So, if you look at what's red -- the  
16 green represents, yes, they have this. The red  
17 represents, no, they don't.

18 So, if you go over to the far right,  
19 basically, the Special Operations guys have  
20 everything except the Hypothermia Cap, that they  
21 said, hey, yeah, it blows off, it's not helpful.  
22 So, they have, if you will, sort of preceded the

1 TCCC Committee and the Board on the decision to  
2 get rid of the cap.

3 The same with the Army. Although you  
4 see the Army coming up red on the TCCC caps, that  
5 really represents the slowness of the system to  
6 reflect changes in their sets. The Army folks  
7 just about sent me a thousand of these TCCC cards,  
8 so that block will soon turn to green. So,  
9 essentially, the Army and Special Ops are there.

10 If you look at the Marines and the Air  
11 Force, I mean they don't have some basic things  
12 like chest seals, they don't have any of the  
13 hypothermia prevention material that we're talking  
14 about.

15 So, as we talk about the small battles,  
16 I think Dr. Kaplan's point is exactly right; it  
17 doesn't matter for us to describe it in great  
18 detail that to use that if they don't have them to  
19 start with, and they don't.

20 DR. LEDNAR: Frank, this is Wayne  
21 Lednar.

22 I assume that in a column that's

1 indicated by Special Operations that that's a  
2 tri-Service column, Special Operations in any of  
3 the Services would be reflective in what they  
4 carry? Is that a fair statement?

5 DR. BUTLER: It's a fair statement.  
6 It's a complicated question, and having come from  
7 sometime in my previous life it is different  
8 Service to Service, and I will just give you the  
9 two most polar examples.

10 In the Navy, the Navy Surgeon General  
11 buys zero equipment for SEAL deployment.  
12 Everything that they have in their kits is  
13 purchased with Crew or Special Operations money.  
14 Not true of the 68 Whiskey where the arrangement  
15 is a little bit different. The Army Surgeon  
16 General buys most of their equipment and the U.S.  
17 Special Operations Command has a program where  
18 they look at what each Service deals with and make  
19 up the difference.

20 So, if, for example, the Army Surgeon  
21 General did not buy intraosseous devices for the  
22 68 Whiskey, the Special Operations Command through

1       that program would buy those devices and give  
2       those to Army medics.

3                So, the Special Ops folks define what  
4       their standard will be. They look at what the  
5       Services have and they make up the difference.

6                Does that help?

7                DR. LEDNAR: That is helpful. Frank,  
8       thank you. I think there's kind of a what and how  
9       in this, obviously, in the how the Services would  
10      find the channels to pay for, supply, equip a  
11      Service specific solution, uh, but what the Board  
12      is being asked to comment on is from our  
13      independent scientific advisory position, does  
14      this recommendation from our view, which is a  
15      medical view, really make sense?

16               It then becomes the Department's input  
17      to how they implement this, and if they chose to  
18      keep the variability as shown on the slide, let's  
19      hope that there is a good reason for that, that it  
20      is attending to the medical needs of these  
21      casualties.

22                Yes, Dr. Oxman.

1 DR. OXMAN: Mike Oxman. If we're going  
2 to endorse Frank's revision as the best we can do  
3 now for our troops, it would seem to me that it  
4 would be appropriate to add the suggestion, if you  
5 will, would this be adopted universally. I would  
6 recommend that. I would so move.

7 DR. LEDNAR: I heard another aspect to  
8 Dr. Dickey's question about data and understanding  
9 the experience to reinforce the need to continue  
10 to evaluate this as a document as well as, you  
11 know, are there new technologies which should be  
12 considered in this application.

13 DR. PARKINSON: Mike Parkinson. Frank,  
14 thank you. Again, I always try to draw us back to  
15 the ten thousand foot or whatever altitude you  
16 feel most comfortable at without being hypoxic.

17 The goal here of the transformed DHB,  
18 and I think it goes back to the administrative  
19 dialogue we had earlier about what is the new  
20 mission of the DHB and how is it of service, is  
21 that we don't have one office, we have got to knit  
22 ourselves to a standardized approach to tackling

1 health, performance, readiness, medical issues,  
2 and the model that appears expressly, rather than  
3 (inaudible), is that the DHB, based on its -- I'm  
4 not an expert in combat casualty care, but I bring  
5 something to the dialogue as other members of the  
6 Board -- just as I'm probably not an expert on  
7 vaccine development, but there are members of the  
8 Board who are, there are other experts on various  
9 aspects.

10 But, but I don't think that we need say  
11 after something is endorsed by the DHB that we  
12 essentially are saying this represents a military  
13 relevant clinical practice guideline for the care  
14 of casualties in the field who need to be  
15 transported at the risk of hypothermia, for risk  
16 of coagulopathy, period.

17 We have had with civilian input come up  
18 with a clinical practice guideline. We,  
19 therefore, endorse this clinical practice  
20 guideline. And I don't think we need to say, and  
21 by the way, I think it should be universally  
22 implemented, just like we don't have to say after

1 we endorse the flu policy that we think, oh, by  
2 the way, that the Navy shouldn't have a different  
3 new vaccine than what the Air Force administers.

4           So, I do think the personal guidance  
5 became, and if we codify this so the STTASP  
6 (inaudible). This has been scrutinized, this is  
7 has been evidence-based, this has been dialogued  
8 at multiple levels, then we essentially say, and,  
9 yeah, we want to hear back from the various  
10 Services why the transport parading in, you know,  
11 out of Florida for Air Force Special Ops, PJ's, if  
12 that's where they train, why don't they have  
13 hypothermia equipment. Is the nature of their  
14 transport brief more than like a transport such as  
15 we might not need it for several areas? It would  
16 interesting to see.

17           But absent that, *res ipsa loquitur*, it  
18 should speak for itself. I'm certain we should  
19 see an update on what is the equipment and the  
20 training and the execution with the data to Dr.  
21 Dickey's point of, are we seeing better hypothermia  
22 management and prevention of same as it relates to

1 it.

2           So, again, not going off, this is our  
3 combat casualty care arm of the DHB process that  
4 hasn't been voted on, essentially  
5 institutionalized as a military relevant  
6 (inaudible).

7           DR. SHAMOO: I think previously we  
8 agreed on this point on the same subject and  
9 during the -- I mention that I would really love  
10 to see some civilian trauma surgeons, what they  
11 do. I really think that we don't have the  
12 expertise and we don't -- we have not collected  
13 the information. Here is what less than what my  
14 case (inaudible). Not only endorse it and not  
15 make it universal. You want to take -- I would  
16 take away that we are endorsing -- this is a  
17 method, because throughout the DoD health care  
18 there's a lot of things, basically, and my  
19 attitude is this should continue and what we will  
20 recommend is that more evidence-based data are  
21 presented to us in the years to come on this issue  
22 since it's not black and white anymore. And it's

1 not.

2           It's a very difficult issue. It's very  
3 difficult to obtain evidence. I'm with you. But  
4 medicine on one-on-one, they do a lot of things  
5 that are not endorsed by higher-ups, and that's  
6 how I would do it. It's a method. Seems  
7 reasonable. Seems logical. And, uh,  
8 professionals in the field if they want to do it,  
9 they go ahead and do it, but we recommend the  
10 continued collection of evidence and data on this  
11 topic to bring back to us in years to come.

12           DR. LEDNAR: Any other comments at this  
13 point? Dr. Lockey and Dr. Oxman?

14           DR. LOCKEY: Just a point of reference.

15           Are we voting on the Tactical Field Care  
16 or are there two proposals we're going to be  
17 voting on in regards to hypothermia prevention or  
18 are we voting -- because there are two different  
19 slides. One is Evacuation, Proposed Changes, and  
20 then the other one is Tactical Field Care. I  
21 agree with the Tactical Field Care proposal, but I  
22 do have problems with the, say, helicopter

1 evacuation.

2 DR. LEDNAR: Our vote should be what  
3 we're voting on, so if there is an advantage of  
4 separating the two, we can do them as separate  
5 steps.

6 Dr. Oxman?

7 DR. OXMAN: Mike Oxman. While I  
8 appreciate Dr. Shamoo's point, I think that a lot  
9 of work has gone into this to make it the best we  
10 can do at the moment, and casualties are occurring  
11 and being evacuated at the moment, and I feel an  
12 obligation to reinforce the relatively extensive  
13 work that has been done in order to formulate the  
14 best practical solutions for the moment. And, so,  
15 while I appreciate Dr. Shamoo's reservations, I  
16 don't agree with it.

17 And then I might as well be a difficult  
18 cuss for Mike Parkinson. As someone with no  
19 military experience except in the allegories, I'm  
20 impressed as a civilian before having anything to  
21 do with Defense Health Board and doubly impressed  
22 by my six years or so with AFEB and Defense Board

1 that there still is a problem with the  
2 independence, if it were excessive independence of  
3 the individual Services.

4 And, so, I think one of the  
5 responsibilities, I feel, as a member of this  
6 Board is to add ammunition to those people who are  
7 trying to bridge that and to encourage all of the  
8 Services to adopt the best practices that we have  
9 now as quickly as possible.

10 So, thank you.

11 DR. LEDNAR: Dr. Shamoo.

12 DR. SHAMOO: A quick response. I think  
13 across Services, I agree with you in principle,  
14 but not on this issue where it's not black and  
15 white. It's not as clarified. It's not  
16 evidence-based. That is, uh, I will say a poor  
17 choice of issue to say all Services has to do it.  
18 I could see the argument on that, because, let's  
19 face it, when we have an argument it's not  
20 something we do, we do it because we are  
21 something. We are intellectuals. You can cause  
22 medical harm also, and that's why it's still in

1 the field. That's really the issue.

2 DR. LEDNAR: One last comment, first  
3 from Dr. Kaplan.

4 DR. KAPLAN: One last comment. I would  
5 ask, Frank, if there is not some feeling in this  
6 Task Force which offered these recommendations,  
7 this Task Force which is made up of, in general,  
8 more expertise than we do have as a collective  
9 body here, then why did the Task Force, Frank,  
10 make the slide that's in front of us now to show  
11 us a difference? There must be a reason for that,  
12 and perhaps he can answer.

13 I think if it's clearly better, then  
14 there's nothing wrong -- then we're not demanding  
15 they do it. We're saying it needs to be looked  
16 at. If it's better, fine. If it's not better,  
17 then we're wasting our time discussing the whole  
18 issue.

19 DR. LEDNAR: Frank?

20 DR. BUTLER: Sir, I'm not sure I caught  
21 all of that.

22 Wayne, if you could summarize that

1 before I go to respond?

2 DR. KAPLAN: He was in the middle of  
3 another discussion.

4 What I said was your group thinks and  
5 has recommended that one way of doing this is  
6 better, if I read it correctly, and your group has  
7 made a slide that shows that there are -- that  
8 there's not uniform implementation. If you think  
9 one is better and there's not uniform  
10 implementation, for us to say that it shouldn't be  
11 considered we can't demand it anyway. It seems to  
12 me to make common sense.

13 DR. BUTLER: Right. Uh, this is --  
14 Well, we will get into evidence in battlefield  
15 medicine a lot more because if, uh, if you think  
16 this was a little tricky, especially when you  
17 start to look at hard evidence, the fluid  
18 resuscitation question is much more so.

19 But I will say that prior to the current  
20 conflicts, the DoD had no standing battlefield  
21 trauma care body that was making trauma care  
22 recommendations customized for use on the

1       battlefield.

2                   And you might say, well, gee, what were  
3       they doing? What they were doing was taking the  
4       ATLS Guidelines and applying or teaching those to  
5       combat positions, teach those to combat medics and  
6       sending people off to war with only those  
7       Guidelines as a basis.

8                   To use the most dramatic example, the  
9       ATLS Guidelines then, and now, recommended against  
10      tourniquet use. What is the level of evidence  
11      that the ATLS folks have to say that tourniquets  
12      are bad? There is no study out there that does  
13      that. They were making that recommendation with  
14      essentially zero evidence that I know of to back  
15      that up.

16                  When the TCCC Committee started to look  
17      at this, you know, we reviewed the evidence. It's  
18      probably level C evidence, which is expert opinion  
19      and case reports, but all of the evidence that we  
20      can find said, hey, we think that it is unlikely  
21      that a short tourniquet application is going to  
22      cause a loss of limb, and even if that were to

1 occur, sometimes it's going to save a lot of  
2 lives.

3 This was a leading cause of preventable  
4 death at the start of this war, and, certainly,  
5 the Vietnam conflict. So, I think the real issue  
6 is nobody has been asking the right questions and  
7 looking at the available literature of combat  
8 medicine.

9 DR. LEDNAR: Okay. I think this has  
10 been a very helpful dialogue and exchange and I'm  
11 going to make -- as a result of our huddle up  
12 here, I'm going to make a suggestion.

13 Frank has started this discussion with  
14 the aspiration of bringing two questions to vote.  
15 The second of the two questions we are not going  
16 to discuss today. We're going to take -- and that  
17 has to deal with the fluid resuscitation. I think  
18 it's important that we have adequate time to both  
19 understand and discuss, and we don't want to  
20 shortchange that, but we will do that at the first  
21 Core meeting in November.

22 So, I hope you or someone from the

1 Committee is working with us between now and then  
2 and also have a discussion at the November Core  
3 Board Meeting.

4 For the first question that Frank has  
5 brought, Jim Lockey has suggested that it might  
6 be, in fact, better to think of it as not one, but  
7 two questions for vote.

8 So, what I would propose, Jim, if you  
9 would, is will you propose a vote to the first  
10 part and then, if necessary, we will have further  
11 discussion on the second part.

12 But if we can move any part of this  
13 forward, I think this is going to be of great  
14 assistance to our combat community.

15 So, Jim, would you propose a  
16 recommendation? And then, Frank, if you could be  
17 listening to this and see if this is consistent  
18 with what you had in mind. Jim?

19 DR. LOCKEY: Frank, can you hear me?

20 DR. BUTLER: I can.

21 DR. LOCKEY: Well, I propose that we  
22 accept your proposed changes for hypothermia

1 prevention listed under battlefield care. I agree  
2 with this. I think it's well done and I propose  
3 that our Board accepts this.

4 DR. LEDNAR: Second? Second by Dr.  
5 Walker. Any further discussion? In that case,  
6 all those in favor of the recommendation to  
7 endorse the Tactical Field Care, Proposed Changes,  
8 all in favor raise their hands.

9 Thank you. Any nays? Frank, it's been  
10 unanimously endorsed by the Board, the Proposed  
11 Changes in the Tactical Field Care.

12 Now, Jim, if you could help us with the  
13 second part.

14 DR. LOCKEY: Frank, the second part now  
15 is, as I understand, is this is evacuation, say,  
16 by helicopter, and under the circumstances I still  
17 think that maybe some effort can be given to look  
18 at the wording part in regard to Part B and then  
19 Part E, because when I read this before I came  
20 here in my own mind with questions as to what  
21 procedures I should follow.

22 As somebody who's been involved in

1 emergency medicine and people who are seriously  
2 injured, I know how rapidly a person can become  
3 hypothermic if they have wet body fluid hanging on  
4 and there's any type of air flow past them. It  
5 doesn't take -- it takes minutes.

6 And, so, I guess I would like you to  
7 consider looking at the language in B and the  
8 language in E and how you can perhaps reconcile  
9 that.

10 DR. LEDNAR: Dr. Oxman looks like he's  
11 got a suggestion or a comment. Dr. Oxman?

12 DR. OXMAN: I don't know whether this is  
13 legitimate or palatable, but I think the interest  
14 is to move forward on this and not delay it until  
15 November, and perhaps Dr. Lockey would be willing  
16 to work with Frank to reconcile that wording, and  
17 I would be glad to delegate my vote to Dr. Lockey  
18 so that we can approve it ending or assuming that  
19 that can be reconciled. Maybe that would put too  
20 much pressure on Dr. Lockey.

21 DR. WALKER: Is the issue on the  
22 helicopter or on an ambulance, they should have

1       this material to be able to put dry clothing on?  
2       Is it different from moving somebody across the  
3       battlefield?

4                   DR. LOCKEY:  The research is not out  
5       there, I would agree with that.  But if you're a  
6       medic and you know somebody who is wet and there's  
7       an open helicopter door and air flow across that  
8       person, they're going to get hypothermic quickly.  
9       That's just the bottom line.  That's just what  
10      happens.

11                   DR. LEDNAR:  Lisa, can we back up one  
12      slide so we can show the evacuation, because I  
13      think that's really what we're talking about right  
14      now.  Isn't it, Jim?

15                   DR. BUTLER:  Well, I'd like to make a  
16      comment on the comments here.  It's not just a  
17      question of can we bring a change of clothes.  I  
18      think we need to consider that a great many  
19      of the casualties in the current environment are  
20      on spine boards having suffered an IED blast with  
21      potential spinal fracture.

22                   So, I think we have to weigh the

1 mechanics of moving the casualty, taking off all  
2 of its clothes, trying to get dry clothes on and,  
3 you know, the lack of spinal precaution that can  
4 be maintained during that procedure, you know,  
5 with whatever manages to be gained by from getting  
6 them out of the wet clothes.

7           So, I really think spinal precautions  
8 need to be considered as we discuss this. It may  
9 be relatively easy if there's an isolated gunshot  
10 wound to the leg and there's no spinal  
11 precautions, but if spinal precautions are  
12 involved we can do as much harm as good by  
13 manipulating the casualty more.

14           DR. LEDNAR: Admiral Smith.

15           RADM SMITH: Frank, the other concern  
16 I had is whether they had already been packaged.  
17 So, clearly I don't want to be taking off the  
18 Ready-Heat Blanket and all of these features and  
19 exposing them when you have the cold and all of  
20 this associated with the helo transport. So, even  
21 if this is to be considered, it has to be, if none  
22 of this has been done previously.

1 DR. LEDNAR: Dr. Silva.

2 DR. SILVA: Frank, Joe Silva here. I'm  
3 getting concerned that we're really micromanaging  
4 the field work. We have well-trained people out  
5 there. They need to have the discretion on what  
6 the hell to do. I mean, you cut one sock, two  
7 socks. It just gets ridiculous. We're getting  
8 out of hand with this to start with.

9 DR. LEDNAR: Dr. O'Leary.

10 DR. O'LEARY: I don't believe we're  
11 going to resolve this today, and I would like to  
12 move that we send this back to the Committee.

13 SPEAKER: I second.

14 DR. LEDNAR: We have a motion that this  
15 is a discussion that could go on for a while. It  
16 won't be adequately resolved to the Board's  
17 satisfaction, and that this portion of the  
18 recommendation go back to the Committee, with some  
19 input from the Board about what the concerns are  
20 and then to have this brought back to us,  
21 hopefully, at the November, Core Board meeting.

22 Is that the motion? A second to that?

1           A second to Shamoo. Okay. Dr. Dickey.

2           DR. DICKEY: I guess I'd like to hear  
3           from Frank whether the delay is problematic,  
4           because to approve the recommendations as they are  
5           in front of us today does no harm with asking the  
6           Committee to continue to evaluate a little  
7           stronger language about clothing removal,  
8           replacement, et cetera.

9           And, so, I believe we could actually  
10          vote positively on the language he's brought us  
11          today, while still sending back to the Committee  
12          our concerns that perhaps it's not quite strong  
13          enough in terms of when and how people get  
14          clothing. I really hate to have this Board delay  
15          the implementation on something that is impacting  
16          our soldiers every day.

17          DR. LEDNAR: To Dr. Silva's point,  
18          clearly, those on the ground need to do the best  
19          they can in the realities that they've got. Also,  
20          we've mentioned in this discussion earlier today  
21          that we need more data-based experience to know  
22          what's working and what's not (inaudible) Core

1 Board meeting, but that can be clearly a signal  
2 back to the combat casualty care community.

3 Dr. Lockey.

4 DR. LOCKEY: I agree. My purpose here  
5 was not to delay this. My purpose was, when I read  
6 this I had some problems understanding what  
7 procedures I needed to follow if I was in the  
8 field. So, I would just ask that the Committee  
9 consider some clarification of that with that  
10 point in mind, but I think we should go ahead and  
11 vote on this.

12 DR. LEDNAR: Can I ask Dr. Dickey for  
13 all of us, can you make a recommendation about  
14 this that we can then act on?

15 DR. DICKEY: I would recommend we  
16 approve the language brought by the Combat Care  
17 Committee and move it forward in terms of changing  
18 the language and simultaneously ask Dr. Butler to  
19 continue to look at modification in the language  
20 in terms of tightening up the recommendations in  
21 issue.

22 DR. LEDNAR: Second to that

1 recommendation?

2 Dr. Lockey, second?

3 DR. LOCKEY: Yes.

4 DR. LEDNAR: Call for a vote. Again,  
5 the vote that has just been -- the recommendation  
6 that's just been proposed by Dr. Dickey --

7 And first, let me ask Dr. Butler, were  
8 you able to hear Dr. Dickey's recommendation?

9 DR. BUTLER: Yes, I was. I appreciate  
10 that approach in that the Committee is not going  
11 to meet until after the next Core Board meeting,  
12 if I have my timeline correctly, so there will be  
13 no chance for the Committee to revisit the  
14 language until after the Core Board has met in  
15 November, which would push us through into the  
16 next winter cycle.

17 So, I think there's real merit in doing  
18 what Dr. Dickey has proposed and capturing the  
19 gains that we have here and then continuing to  
20 work on it.

21 DR. LEDNAR: So, with Dr. Dickey's  
22 recommendation and the second, I'm going to ask

1 all those in favor of the recommendations as Dr.  
2 Dickey proposed it?

3 All those against or nays? None. So,  
4 Frank, it's been a unanimous vote of the Board --

5 DR. SHAMOO: It is not unanimous because  
6 you did not take the abstentions.

7 DR. LEDNAR: All right. Let me ask.  
8 Are there any abstentions? We asked for yea's and  
9 nays. The record reflects one abstention.

10 Okay. Dr. Oxman?

11 DR. OXMAN: I'd like to revisit Dr.  
12 Dickey's recommendation. If we're going to have  
13 data, I would think that we should recommend the  
14 deployment and implementation of the TCCC card as  
15 quickly as possible.

16 DR. LEDNAR: Frank, I would guess that  
17 with the order of the TCCC card and the scheduled  
18 plan for implementation that the Department has  
19 underway, that the TCCC cards will become widely  
20 used in theater. Is that a fair assessment?

21 DR. BUTLER: I think we're moving in  
22 that direction. Whatever assistance we could get from

1 the Board to maintain that momentum that we  
2 currently have would be greatly appreciated. It  
3 is absolutely right that many of the decisions  
4 that we are making are based on data that could be  
5 better if we were getting those cards filled out.

6 DR. LEDNAR: Okay. Dr. Halperin.

7 DR. HALPERIN: You know, the next  
8 reference, the fluid resuscitation issue that was  
9 to come up next, you know, is really more  
10 problematic than this one. If people would read  
11 the recommendations about the San Diego company  
12 who are the study over lunch, I think we could get  
13 that done in five or ten minutes and not put this  
14 aside. So, I wouldn't feel badly if we put the  
15 Millennium Cohort issue in front of it under fluid  
16 replacements.

17 DR. LEDNAR: To the Millennium Cohort  
18 report? Well, we can accommodate the agenda so  
19 that we give that the time after lunch. So, don't  
20 feel like we have to get that in before lunch.

21 DR. HALPERIN: It's not the before.

22 It's not looking at Dr. Butler's second

1 recommendation. I could say I can cut down the  
2 time we spend on the Millennium Cohort and still  
3 get to the --

4 DR. LEDNAR: Let us take that suggestion  
5 and consider it. We'll just leave it at that.

6 I'm going to ask, with the good graces  
7 of Dr. Dickey and Dr. Lockey, that given the  
8 discussion we've had here and some of the messages  
9 we would like to pass along as we have endorsed  
10 the recommendation, some of the additional  
11 considerations about data and continuing to  
12 evaluate any aspects, and supporting that data on  
13 the use of the TCCC cards. As an example, I think  
14 we can convey that message in a supportive way as  
15 we've endorsed.

16 So, if we can from the Board's point of  
17 view get both your help, Dr. Dickey and Dr.  
18 Lockey, in that wording that can be included in  
19 our endorsement letter, I think we'll deal with it  
20 that way.

21 Okay. Frank, my sense is that on the  
22 first of your two questions we, the Board, has

1 voted to endorse and is in favor.

2 Well, we will figure out how to perhaps,  
3 underline perhaps, have some Board time discussion  
4 in this meeting to perhaps introduce and better  
5 understand the questions about the fluid  
6 resuscitation. I get a sense we're not going to  
7 be able to bring that to vote at this discussion,  
8 but perhaps we can use some Board time to better  
9 inform us for a vote at a future time.

10 So, even though, frankly, the Committee  
11 will not meet until after the November Board  
12 discussion, we might be able to begin to get  
13 ourselves prepared to better understand and then  
14 in a more informed manner at the November meeting  
15 to bring this to vote with your help, Frank.

16 Dr. Walker?

17 DR. WALKER: Might I just suggest that I  
18 formally move that we endorse the implementation  
19 of the TCCC cards universally and the gathering of  
20 the data so we'll have data to use to make some of  
21 these decisions?

22 DR. LEDNAR: Okay. So, there's a motion

1 on the floor to endorse the use of the TCCC cards  
2 so that there are data to inform both the  
3 Department and the Board.

4 A second? Dr. Mason. Any discussion?  
5 Dr. Parkinson.

6 DR. PARKINSON: You know, I'm all about  
7 goodness and light and all these good things, but  
8 there's a piling on phenomenon that I emotionally  
9 have to express here, and I just want to make sure  
10 that in the broad scope again of what the DHB is  
11 supposed to be doing, at the top of my head is,  
12 okay, let's get a little refresher on the TCCC  
13 cards and how does that interface with EMR in  
14 field operations of what follows the patient where  
15 (inaudible) and into the overall surveillance  
16 aspects of what we're doing at DoD (inaudible).

17 So, I mean, yeah, but... So, I endorse  
18 the concept? Absolutely. We need data on trauma  
19 in the field. Absolutely, we need it. But we've  
20 just got to be cautious that we're not the  
21 (inaudible). Does it fit with what it was doing  
22 in the MHS IT strategy and where it is going to go.

1 I'm just a little, you know, uncomfortable to tell  
2 everybody go get the TCCC cards at a level of  
3 understanding, at least this member has at this  
4 juncture in time.

5 DR. LEDNAR: Any other comments? So, we  
6 have a motion. Uh, process-wise we sort have to  
7 deal with the motion. What I heard is a  
8 consensus, at least we want to try to make the  
9 most informed decision based on data-based  
10 experience. The mechanism by which that data are  
11 collected and presented is a little less than  
12 having accurate credible data, uh, whatever the  
13 tool, and that we can convey that interest, uh, in  
14 a general way as part of our endorsement without  
15 necessarily having the specific recommendation or  
16 use this tool in the field across so that making  
17 our combat casualty care experts as they gain  
18 experience they find a different, better way that  
19 also reconciles with the remainder of the Military  
20 Health System's data movement in collection in the  
21 future (inaudible). Dr. O'Leary.

22 DR. O'LEARY: O'Leary here. You know,

1       it seems to me that the recommendation was not  
2       that this be used as an exclusion of all  
3       methodologies. And, quite frankly, if this is a  
4       way to enhance the collection of data then we  
5       should be recommending it. I don't see any  
6       problem with that.

7                 DR. LEDNAR: Which leaves open any  
8       further enhancements that may make sense.

9                 Dr. Mason.

10                DR. MASON: Procedurally, it's just a  
11       friendly amendment to the motion. That's all it  
12       is. All you have to do is accept it as a friendly  
13       amendment to the motion and then we can vote.

14                DR. LEDNAR: Would someone care to word  
15       the friendly amendment to the motion?

16                DR. SILVA: It's not clear to me that  
17       the TCCC card is a methodology for collection of  
18       data. Isn't it more of an infield clinical tool  
19       (inaudible)?

20                DR. LEDNAR: We may be thinking it has  
21       to be greater than what it's intended.

22                DR. BUTLER: I thought of that. You're

1 absolutely correct in saying that TCCC card is the  
2 first step towards getting the information that we  
3 need. There is no way without the Pre-Hospital  
4 Trauma Registry Database that has been developed  
5 by the Rangers to take what's, or a laminated card  
6 and put it into a database where it can be used by  
7 researchers and process improvement people.

8 So, I really think that the pre-hospital  
9 piece you have to have both the card and the  
10 Ranger Pre-Hospital Trauma Registry as adapted and  
11 modified by the Services.

12 The second bit of the data collection  
13 piece is the JTTR. We need to be able to track  
14 the casualties once they get to the Level 3,  
15 launched back to CONUS, and the JTTR does that  
16 (inaudible).

17 The third item that we haven't talked  
18 about, but as long as we are addressing the input  
19 that we need, is the input from Armed Forces  
20 Medical Examiner's Office.

21 Now, it's interesting, can anybody here,  
22 you know, think of a study where they have looked

1 at every preventable death that came out of,  
2 whether or not they looked at every death that  
3 came out of theater and made a judgment as to  
4 whether or not this was a preventable or  
5 non-preventable death? That's been done twice in  
6 two studies, but with very limited cohorts.

7 It would seem to me that we would want  
8 the AFME look at every single fatality, make a  
9 determination of preventable or non-preventable  
10 and speak to the mechanism of that and how that  
11 death might have been prevented.

12 And I will just use three examples.  
13 We've got a casualty picture from early in the war  
14 where an individual was shot in the leg and bled  
15 to death because there was no effective  
16 tourniquet. This was 2002.

17 There was a more recent photograph where  
18 we had a casualty who died with a tension  
19 pneumothorax and the CT scan showed that the  
20 smaller catheter used to attempt the neo  
21 thoracotomy was too short to get through his  
22 muscular chest wall.

1                   And then an even more recent photograph  
2                   from AFME that shows a ferreous device designed  
3                   for the tibia improperly being used in the sternum  
4                   going through both the layer and the outer layer  
5                   of the sternum into the mediastinum and the fluid  
6                   that was then infused went into the mediastinum  
7                   instead of the marrow space.

8                   So, I really think that the input that  
9                   comes into AFME is another critical part of the  
10                  picture, because if somebody dies pre-hospital,  
11                  they never get into the Joint Theater Trauma  
12                  Registry. That is only for admissions to a Level  
13                  3.

14                 DR. LEDNAR: Dr. Shamoo.

15                 DR. SHAMOO: I just want to caution that  
16                  if we're going to use a card to collect data and  
17                  make a generalized knowledge, now you're doing  
18                  research protocol without the proper design and  
19                  you're collecting data without going through  
20                  informed consent and without human subject, and  
21                  this was the second general, if I remember, this  
22                  was the second most important issue in the Medical

1 Subcommittee deliberation, and we said we should  
2 be deliberating and discussing and see how we do  
3 research in the combat zone.

4 I think, I don't know if it was Frank  
5 was the one who brought it up, but I think Frank  
6 was the one who brought it up in the Medical  
7 Subcommittee.

8 So, that's what you are proposing,  
9 pushing them to do research without proper  
10 protocol, without informed consent or how we do  
11 informed consent and you will be in greater  
12 problems than simply using it.

13 DR. LEDNAR: What I heard Frank say  
14 about the TCCC card, the Services are already  
15 moving forward with having looked at it, seeing  
16 the value to them of that clinical documentation  
17 as part of a record, uh, and that's within a hit.

18 What we heard Frank also remind us is  
19 that the data support the in theater care, the  
20 transport evacuation chain is supported by several  
21 systems. There are gaps that occur. If you do  
22 not arrive alive at a Level 3 center, there's an

1 experience that it won't be in that data set.  
2 It's important to understand, which brings the  
3 Armed Forces Medical Examiner into play.

4 So, what I think what we have is a field  
5 of parts that haven't necessarily in our mind been  
6 understood and pieced together and need for good  
7 patient care and understanding the experience and  
8 hopefully improving the outcome.

9 DR. BUTLER: If I could answer Dr.  
10 Shamoo's very well made point.

11 The bulk of the papers that were written  
12 based on AFME data were done under protocols  
13 developed under protocols for approval. These are  
14 papers and there can't (inaudible). So, these  
15 were done exactly as you say and is exactly as  
16 they should have been done.

17 The data and the JTTR is also used for  
18 process improvement. We review every casualty  
19 every week and that is truly process improvement.  
20 It's not research. We look at what happened in  
21 every casualty every week and we do that. In  
22 fact, we're doing that tomorrow morning. That is

1 not done under a research protocol and it is not,  
2 in fact, research, it is process improvement.

3 So that there are two very different  
4 uses that the available data is being put to.

5 DR. DICKEY: Can I try to -- I'm very  
6 interested in the TCCC card, but what I recognize  
7 is something we talked about sometime ago. Can I  
8 ask that we table this discussion so that at the  
9 November Board meeting, at which point Dr. Butler  
10 or others can give us an update about where it is  
11 and the other competing data development?

12 DR. LEDNAR: So, what I hear is a  
13 suggestion to table the friendly amendment portion  
14 specifically to the TCCC card, that we continue to  
15 endorse the recommendations that was brought to us  
16 and that as an agenda item for an upcoming,  
17 probably the November Core Board meeting, we have  
18 a more complete discussion of the various tools  
19 and approaches that can support the data to  
20 understand the experience.

21 Any comments to that? Dr. Walker?

22 DR. WALKER: I'm going to vote against

1 it just because (inaudible).

2 DR. LEDNAR: Okay. So that we will  
3 bring -- we have a motion then. We will bring it  
4 to a vote.

5 DR. SHAMOO: I'm sorry to be a  
6 bureaucrat, but tabling a motion takes precedent.

7 DR. DICKEY: You need a second and then  
8 --

9 DR. SHAMOO: That is correct. It will  
10 die from lack of second, not because we have a --

11 SPEAKER: I second.

12 DR. SHAMOO: He just did.

13 DR. LEDNAR: So, what we have is a  
14 motion. It's just been seconded to table the  
15 friendly amendment about the TCCC card.

16 DR. OXMAN: One item of discussion  
17 before we vote to table it or not table it.

18 It is my understanding that this was not  
19 --

20 DR. SHAMOO: The only thing you can  
21 discuss is whether you want to table it or not.

22 DR. OXMAN: This reflects what we're

1 tabling. The TCCC card is collecting data for --  
2 essentially, quality assurance data, and in the  
3 absence of it, no data is being collected from that  
4 interval; is that correct?

5 DR. LEDNAR: What is on the table as a  
6 motion for table is an endorsement of the TCCC  
7 card. What the Services elect to do today, what  
8 they order or what they feel is their choice and  
9 their doing, and from what my understanding of  
10 what that Frank has said, the TCCC card is in use,  
11 is being extended no matter what this Board's  
12 decision or vote to do or not to do is.

13 What I hear about the motion to table is  
14 a request to better understand the various aspects  
15 of how to improve the data collection and support  
16 of the experience. Is that a fair --

17 DR. DICKEY: Yes.

18 DR. LEDNAR: So, that is what's being  
19 voted on, to table for further discussion and  
20 presentation and understanding by the Board at the  
21 November 1st or 2nd, 2010 Core Board Meeting.

22 So that is the motion, the motion to

1 table. Have I stated that correctly?

2 So, any further discussion around the  
3 motion and then we vote on the motion to table.

4 All those in favor of tabling the motion  
5 until the November Core Board Meeting please say  
6 or raise your hand and say "aye." By hands, all  
7 right.

8 And all those who are voting "nay," that  
9 they do not wish to table -- 1, 2, 3 4 -- four  
10 votes to not table.

11 Any abstentions? Zero. Okay. If my  
12 calculation is right, we have voted to table this  
13 issue. I will try to not be a bureaucrat because  
14 -- but I thank you, Dr. Shamoo, for the process  
15 adherence at this point.

16 But I think what we have had in the last  
17 hour or so is a very engaging discussion on a  
18 very, very important topic, so this was really  
19 very, very important.

20 And, Frank, I hope you can convey back  
21 to the Subcommittee the energy and the interest  
22 that the Board has to the work of the Subcommittee

1 in really trying to do the best possible support  
2 to this important casualty care. Some in the  
3 Subcommittee might be disappointed that the Board  
4 didn't endorse to vote for the questions Frank  
5 brought to us. I think there was a very important  
6 level of discussion, and there will be more at the  
7 November Core Board Meeting.

8 So, Frank, any closing comments you'd  
9 like to make at this point?

10 DR. BUTLER: Yes. I appreciate the time  
11 and the effort of the Core Board in considering  
12 that the hypothermia question was the easier of  
13 the two. I think it's probably good that we're  
14 deferring the discussion and making sure that it  
15 gets the full attention and discussion that the  
16 fluid resuscitation issue deserves. It's much  
17 more complex and much more divisive.

18 The second point is my understanding is  
19 that we should go ahead with implementation into  
20 the curriculum of the hypothermia prevention  
21 change and table the fluid resuscitation change  
22 pending the November meeting of the Core Board.

1 DR. LEDNAR: That understanding, Frank,  
2 is correct.

3 DR. BUTLER: Okay. And then, lastly,  
4 the good thing about the deferring the discussion  
5 is it gives the Board members a chance to respond  
6 either to me directly or through Ms. Bader's  
7 staff whatever issues that they would like to see  
8 clarified in the fluid resuscitation discussion.

9 It also gives me the chance to forward  
10 the Board some additional material to read on this  
11 topic that will help them out in further  
12 discussion, and I will actually forward the  
13 references that I had mentioned in that one slide  
14 for the Board to review so that they will have had  
15 a chance to look at these before the November  
16 meeting.

17 DR. LEDNAR: Thank you. That would be  
18 really very helpful, at least, as you know, a  
19 process reminder for us. As we are in a public  
20 open meeting of the Defense Health Board, as we  
21 continue to deliberate virtually between now and  
22 November of the next Core Board Meeting that still

1 remains an open discussion.

2           So, procedurally, if you have questions  
3 that the Board members would like to refer back  
4 through Frank to the Subcommittee, would you  
5 please send them to Ms. Bader, and Ms. Bader will  
6 then forward them on to the Subcommittee. That  
7 keeps it all in open traffic from a transparency  
8 point of view.

9           MS. BADER: You can send it directly to  
10 Frank. If you just courtesy copy me, that would  
11 be great just so I have it.

12           Additionally, we may want to consider  
13 having some of your Subcommittee members at the  
14 November meeting, both at CoTCCC and Trauma  
15 Injury. So, we can talk more about that off line,  
16 but I think that would be a great idea as well to  
17 have them in discussion, as well.

18           DR. BUTLER: I think that would be a  
19 great thing considering the complexity of the  
20 fluid resuscitation issue. It is probably the  
21 most difficult thing that we deal with and the one  
22 where the legislature is most in conflict. So, I

1 think that would be a great idea.

2 DR. SHAMOO: I would like to see a  
3 couple civilians, a resuscitation expert, at least  
4 a dozen of them there to give us an opinion or  
5 have them come here and make a presentation or  
6 make commentary after the presentation. I think  
7 we need the input somewhere on this. This is a  
8 big, hot issue and a very, very important issue.

9 MS. BADER: And, Frank, I'm assuming you  
10 can help us with some of the civilian experts that  
11 you've been working with?

12 DR. BUTLER: Absolutely. We will have  
13 to check their availability. We can certainly  
14 look in on a list of people who would be the right  
15 people to invite and see how many you would like  
16 and who can make it. I'll also work with you on  
17 that.

18 MS. BADER: We'll work with the Board as  
19 well for their recommendations. Thanks.

20 DR. LEDNAR: Dr. Halperin?

21 DR. HALPERIN: When that is presented,  
22 could the date it be presented on which the

1 conclusion is based currently, all of the data was  
2 referenced in this second paper. It wasn't going  
3 to be presented. I think we really should see on  
4 what (inaudible) data the basis for (inaudible)  
5 under resuscitation preferable is (inaudible).

6 DR. LEDNAR: Frank, what the Board will  
7 do is work with you to really frame the time at  
8 the November Core Board Meeting in terms of the  
9 data to assemble, suggestions on how to present  
10 it. We can talk about some potential subject  
11 matter experts, perhaps from the civilian world  
12 considering resuscitation could join us, how they  
13 might participate so it would really make this a  
14 really focused, but as much as possible, data  
15 supported discussion.

16 Dr. Poland?

17 DR. POLAND: I appreciate what you're  
18 saying, although there's a bit of a danger of  
19 getting too deep into the data. But I wonder if  
20 an appropriate compromise might be for the  
21 recommendations to carry with them an  
22 epidemiologic grading. So, this is a Grade 1A

1 recommendation, you know, is this a recommendation  
2 supported by Grade 1A evidence or Grade 2 or 3  
3 evidence, and then we can selectively go into this  
4 data.

5 DR. BUTLER: Yes, Dr. Poland, we do have  
6 the figures, the papers that go into great detail  
7 on that. There's actually for the first time in  
8 one of our recommendations went through and looked  
9 at the level of evidence for each of the different  
10 (interruption) for the recommendations that are  
11 made at, most of it is Level C. If you use the  
12 American Heart Association's classification, the  
13 rest of the data used is that the recommendations,  
14 the level of evidence for the civilian  
15 pre-hospital standard of care are probably worse.

16 DR. POLAND: It's okay. It often  
17 reflects reality. But I think if we had those  
18 data available, a summary of the data and next to  
19 each recommendation an evidence-based ranking of  
20 it, that would go a long way toward, I think, the  
21 Board's desire.

22 DR. BUTLER: Yes, that is done, and we

1 will forward you, uh, physician paper that spells  
2 out the level of evidence for the various portions  
3 of the recommendations as part of the package.

4 DR. POLAND: Great.

5 DR. LEDNAR: Frank, from all of us here  
6 at West Point, we're sorry you weren't able to  
7 join us in person. We really appreciate you  
8 being so effective participating by  
9 telephone. And, hopefully, this will work out  
10 okay for you, but we really appreciate how, and  
11 the extent of time that you participated with us  
12 today.

13 So, thanks, Frank.

14 DR. BUTLER: I appreciate the  
15 opportunity and look forward to seeing everyone in  
16 November.

17 DR. LEDNAR: Thanks, Frank.

18 DR. BUTLER: Take care.

19 DR. LEDNAR: What we'll do now is Ms.  
20 Bader will give us instructions as we break for  
21 lunch and what the plan is for coming back in.  
22 Ms. Bader.

1                   MS. BADER: Well, thanks everybody for  
2 the great discussion this morning. Let's break  
3 now for lunch. We'll have lunch again right next  
4 door. As opposed to the normal hour we have for  
5 lunch, let's make it forty-five minutes so we can  
6 try to get back on schedule. So, we will  
7 reconvene at 1:45.

8                   Thank you.

9                                   (Whereupon, at 1:00 p.m., a  
10                                   luncheon recess was taken.)

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1                   He leads our Military Occupational/  
2       Environmental Health and Medical Surveillance  
3       Subcommittee. For the very important activity of  
4       the Subcommittee has been with the Deployment  
5       Health Centers, and what Dr. Halperin is going to  
6       bring to us for vote is, in fact, a Subcommittee  
7       review of the Deployment Health Research Center in  
8       San Diego, California, and the Subcommittee's  
9       findings as a result of that visit and will bring  
10      that to a motion before the Board.

11                  Anything else I should say by way of  
12      introduction?

13                  DR. HALPERIN: No.

14                  DR. LEDNAR: So, Dr. Halperin.

15                  DR. HALPERIN: So, it's been a fruitful  
16      luncheon discussion, came up with a new  
17      epidemiologic pathology called the standardized  
18      discussion ratio, which is the amount of time that  
19      it actually took for the discussion divided by the  
20      amount of time it should have taken for the  
21      discussion, and since I frivolously said this  
22      would take about ten minutes, we'll see what the

1 ratio is.

2 So, next slide, please. Next slide.

3 All right. The names of the members of the  
4 Committee are all up there, and you'll see a  
5 couple of people with stars to the right of their  
6 names. These are people who are sort of on the  
7 Committee and were recruited into be part of Team  
8 San Diego, and we appreciate it. They've been  
9 very helpful.

10 Next slide, please. The Committee  
11 charged to review the Deployment Research Center  
12 in San Diego goes back all the way to 2002. You  
13 all know that there are three Deployment Research  
14 Centers. The one we looked at was the one that  
15 does the cohort studies in San Diego is located in  
16 the San Diego Naval base. We're going to be  
17 looking at the other two Deployment Research  
18 Centers in the future, so we're only looking at  
19 one now.

20 And our charge pretty much was from Dr.  
21 Winkenwerder was to review the Centers, was also  
22 to play a role as an advisor to the centers.

1           Next slide, please. The Subcommittee  
2 visited, once it was just by staff and then we  
3 went back as a full Committee. We had a thorough  
4 review, and after that we produced a report that  
5 has been now circulated amongst all Committee  
6 members, and I think we're pretty close to a  
7 finalized report and that's what we're going to go  
8 over today.

9           Next slide, please. You can skip this.

10           So, I'm going to assume that we've all  
11 had a chance to at least peruse the report that  
12 goes with forty or so observations and we can  
13 really get to the heart of the matter.

14           The research group in California has  
15 gone through an evolution in the ten or so years  
16 that it's been there. That evolution has left the  
17 group with a fairly reasonable sized group of  
18 epidemiologists and statisticians who shepherd the  
19 Millennium Cohort, the study which is 200,000 plus  
20 and growing. The researchers though who are there  
21 are fairly new to their careers. Basically,  
22 they're in their thirties, so you have to call

1       them on the junior side. They're very competent  
2       people.

3                   It was the impression of the group  
4       though that the combination of the researchers  
5       being more or less local to San Diego with an  
6       Advisory Committee that consisted of people who  
7       had either been previous researchers on the  
8       Millennium Cohort or people who are connected to  
9       the researchers through academics through San  
10      Diego left this group with a little unusual  
11      experience.

12                   The Millennium Cohort essentially does  
13      not have senior epidemiologic researchers or  
14      biomedical researchers that are involved. It has  
15      very much a local input. It doesn't have a real  
16      peer review system for either sorting through the  
17      priorities that the group -- that ought to be  
18      looked at in their research or for actually  
19      evaluating the specific protocol score for  
20      research.

21                   So, there's some recommendations that we  
22      want to make, which goes back to the original Dr.

1 Winkenwerder suggestion or guidance, which is that  
2 the Defense Health Board play a role in an  
3 Advisory Committee for the Deployment Center, and  
4 that as an Advisory Board, what it consists of is  
5 members or assignees from the Defense Health  
6 Board, along with other people who are recognized  
7 for their expertise along with representatives of  
8 the military, the VA, and so forth, and then this  
9 group play a very active role in reviewing the  
10 priorities, reviewing the protocols, reviewing the  
11 progress, and at some point the funding, the  
12 mandate, et cetera, for the Millennium Cohort.

13           So, that's our first recommendation is  
14 really a major redo of the Advisory Committee  
15 System for the Center.

16           Now, I think it's in the next  
17 recommendation -- yeah -- the next recommendation  
18 is that the Center, while it doesn't have the kind  
19 of review process that we wish it have that I just  
20 described, it does have multiple reviews.

21           So, for example, part of the U.S. Army  
22 Medical Research and Material Command mandates

1 that the AIBS, the American Institute of  
2 Biological Sciences, review the Millennium Cohort  
3 Group, the Deployment Health Research Group  
4 periodically.

5 Our recommendation is that if at all  
6 possible, these disparate kinds of reviews all be  
7 combined into the one review group and they not  
8 have to have multiple parallel reviews, but only  
9 the Defense Health Board Review Team, and, yet,  
10 the Defense Health Board Review Team be more  
11 involved in actual substantive review of  
12 priorities and progress.

13 Next slide, please. The other  
14 recommendations are that the three Centers have  
15 periodic meetings so that they can -- mandatory  
16 periodic meetings so that they can discuss between  
17 the three Centers and coordinate what they're  
18 working on.

19 Another recommendation is that when  
20 there is opportunity to recruit research personnel  
21 into the Center, that this be done with a thought  
22 of this being a national gem and that national

1 scientific leadership ought to be recruited into  
2 the group.

3 The final recommendation of the slide,  
4 that there ought to be a process by which research  
5 priorities generated and vetted after substantial  
6 discussion and that ought to absolutely involve  
7 the researchers themselves, and, also, the  
8 Advisory Committee.

9 Next slide, please. The first comment  
10 up there is that while there's institutional  
11 review of the studies, there really isn't  
12 substantive scientific review of the study  
13 protocols outside of the researchers, and that  
14 ought to be discussed.

15 The impression of our Review Committee  
16 was that the seeming isolation of the group out  
17 there could be remedied also by making  
18 opportunities available for researchers from other  
19 parts of the country who might be available for  
20 short- or long-term sabbaticals to be involved in  
21 the group.

22 It is also our impression that there's

1 some real problems career-wise for, let's say  
2 epidemiologists, preventive medicine officers in  
3 any one of the branches of the Services going to  
4 this group and spending more than just a couple of  
5 years, and more than a couple years is really  
6 probably necessary in order for somebody to make a  
7 real research contribution.

8 But career-wise, it's problematic  
9 because it's not the way one seeks promotion in  
10 the military, and it was our impression that what  
11 is really lacking on a more fundamental profound  
12 level is a career track for epidemiologists.

13 So, this is not so much for the  
14 Deployment Research Center but a comment, if you  
15 will, more to the DoD about looking at the  
16 possibility of developing a career track for  
17 epidemiologists.

18 Next slide, please. All right. Now, in  
19 the future, hopefully, September, October, we're  
20 going to repeat this process like the other two,  
21 and the way we'll do it is probably with Christine  
22 Bader, and then develop an assessment of what we

1 think is going on and then we'll follow up with  
2 the full Committee.

3 So, I think that at this point those are  
4 the recommendations having to do with the  
5 Deployment Health Center. I've saved some  
6 comments on other things for later.

7 So, if you will, we can open it up to  
8 discussion now and perhaps the other people on the  
9 Committee who were there might want to raise their  
10 hands so that... All right. Good. So, any  
11 questions at this time, now would be a good time.

12 DR. LEDNAR: Dr. Parkinson.

13 DR. PARKINSON: Yeah. Mike Parkinson.

14 I guess I want to ask you about while  
15 there was -- it sounds like there was kind of a  
16 local flavor to the advisory function and the  
17 oversight function. Was there evidence that you  
18 could pinpoint to that there were impacts of that  
19 localness that were opportunities that perhaps had  
20 not been raised or where awareness that the local  
21 oversight was missing on the national and  
22 international perspective?

1                   What was the impact of that, if any, or  
2 was it just a feeling that should be formulated as  
3 much by local oversight (inaudible).

4                   DR. HALPERIN: I think it's reasonable  
5 to say that between the first meeting that I had  
6 when some of these observations were made, and the  
7 second meeting which was many months later,  
8 perhaps six months later, where the Committee was  
9 there, that some of the observations made in the  
10 first one about lack of priority setting a  
11 certain, you know, clarity about how they were  
12 getting ideas and then turning that into research  
13 guidance and so forth, had already been lending --  
14 and I took that as real evidence of the isolation  
15 that we thought we observed in that first meeting,  
16 but it's not that -- they're really quick  
17 learners. This is a very good group of people.  
18 But I think, uh -- I think it's pretty clear that  
19 on the major issues if you only relate to the  
20 prior researchers who have been involved, that you  
21 don't open yourself to the needs, if you will, of  
22 all the constituents, which includes -- it's a

1 very broad group that lists things that they would  
2 like to be seen to be done.

3 There isn't even a possibility, a  
4 process now by which external researchers consider  
5 obtaining the data for external review, that is  
6 sanitized data for external review. So, I don't  
7 think it's, uh -- it's my impression though that  
8 this local flavor, it really has led to isolation.

9 Others may want to comment.

10 DR. LEDNAR: This is Wayne Lednar.  
11 Thinking about having had the opportunity to join  
12 Bill at the site visit, two things occurred to me  
13 at this point. One is that the Millennium Cohort  
14 is a national treasure, but as the Cohort is  
15 followed over time, to the extent that there is  
16 lost a follow-up and there are fewer people who  
17 have longitudinal data available in this Cohort,  
18 the values starts deteriorating rapidly  
19 (inaudible), and it isn't real clear that whatever  
20 good work to sustain this level of participation  
21 to keep the informativeness is happening. There  
22 is a substantial amount to follow up and these are

1 challenging studies to do, but that's part of the  
2 oversight, I believe, that is somewhat needed.

3           The second visit. As Bill said, this is  
4 a young, industrious, hard charging group of  
5 junior researchers and they've been quite active  
6 in writing papers and giving posters, meetings, and  
7 presentations on epidemiologic methods. When you  
8 look at the portfolio of what has been produced  
9 and then you ask the question how is this helping  
10 DoD, how is this translating into operational  
11 improvement or what's the input they've been given  
12 to have DoD's priorities with capabilities of the  
13 Millennium Cohort, how is this being discussed and  
14 factored into their work, and at least it wasn't  
15 clear to this visitor that group has had the  
16 opportunity to hear from DoD.

17           Now, part of that might be their  
18 geographic separation, which is not all bad, but I  
19 think it's an opportunity missed for DoD of that  
20 kind of coordinated communication between DoD  
21 priorities and this resource.

22           DR. MASON: This is Tom Mason. From a

1 review -- I couldn't go to San Diego, but I did  
2 have the opportunity to review a number of their  
3 manuscripts. And picking up on your point  
4 (inaudible), if you look at how the publications  
5 are actually being used and the potential for the  
6 misuse, the misuse of findings from a study which  
7 arguably is no longer representative of the  
8 original cohort that was recruited, is ample  
9 scientific argument for this has to be done  
10 better.

11           Very simply, there are strategies.  
12 Those of us who have cohorts for long periods of  
13 time are painfully familiar with follow up. But  
14 we try in every possible way, you know, to come up  
15 with ways to bring them back in. You know, you've  
16 got -- you've got them at the front end. You may  
17 have lost them a little bit. I don't care if you  
18 go back to the repatriated POW's. We can look at  
19 the Air Force, what did and didn't work. We can  
20 still work with them.

21           Now, the fact that we lost the Air Force  
22 Cohort for a while was then dealt with in a very

1 straight forward "Hello, y'all. Come on down to  
2 Pensacola," as we said.

3 Now, so then the question for me then is  
4 if you look at the articles and apropos our  
5 charge, our Subcommittee's charge and the toxic  
6 questions we're being asked to address, the  
7 persons that are thinking along the lines of  
8 deferring to publications coming from the  
9 Millennium Cohort, they're going in the wrong  
10 direction.

11 DR. HALPERIN: A comment. When we  
12 discuss the issue of -- it was actually a response  
13 to a questionnaire survey that our Review  
14 Committee was fairly impressed by the low level  
15 response. It didn't seem like within the local  
16 milieu that that concern had been shared, but I  
17 think we have to come back to giving credit to the  
18 people who have been cumulative about the  
19 sensitive learners that are the with different  
20 perceptions was (inaudible). They were on board  
21 with comments being made.

22 DR. MASON: I'm with you, and that's

1 exactly the point. But the point with regards to  
2 published articles is lost, because those who read  
3 the published articles have no appreciation or  
4 understanding or awareness of these discussions.

5 The team is good. The team is  
6 well-configured and they are quick studies, but I  
7 think if you basically suggest very supportive and  
8 very positive, if you will, advice and counsel  
9 coming from the Board on the Subcommittee that in  
10 order for these publications and subsequent  
11 publications to address these emerging questions,  
12 I think this has to be, and having to pick up on  
13 those recommendations (inaudible). I think  
14 another observation, that that relates to  
15 staffing.

16 DR. LEDNAR: Though it has been present  
17 in the staffing structure in the past has been an  
18 inclusion of at least one or more than one  
19 uniformed researchers, and I think the very large  
20 benefit to the operation of the Millennium Cohort  
21 has been military insight that comes from the  
22 uniformed researcher.

1           When it comes to going to military posts  
2           and interacting with units, there's an ease of a  
3           uniformed person during that contracted civilian  
4           as to work through (inaudible), and yet, these are  
5           (inaudible) that have pressures among the Services  
6           and having the commitment that this is an  
7           important activity of the DoD, and there's a way  
8           to get the right uniformed person there and to  
9           keep that flow going is an aspect of  
10          sustainability that is important for us, I think  
11          as (inaudible).

12           DR. HALPERIN: For us to recognize and  
13          make the recommendation that it's really got to be  
14          DoD to see how it's going to be the researchers  
15          themselves that (inaudible).

16           DR. LEDNAR: Dr. Kaplan and Dr.  
17          Parkinson.

18           DR. KAPLAN: Ed Kaplan. I was a member  
19          of the group. I wonder if you'd like to expand in  
20          the written report that you gave, that you talked  
21          about Number 20 under specific issues, where it  
22          says administratively the Center for Deployment

1 Health Research is in the management chain of the  
2 Department of the Navy, Bureau of Medicine. Uh,  
3 however, in practice, authority for the Center  
4 stems from DoD Health Affairs, potential  
5 ambiguities that may result, and so forth.

6 Do you want to comment a little bit more  
7 about that, because I remember we had quite a  
8 discussion about that.

9 DR. HALPERIN: The issue being this is  
10 the mandate for these activities is a very high  
11 level mandate. The supervision for the group, if  
12 you will, the administrative supervision finds  
13 itself all the way down, if you will, down the  
14 chain and at a local labor base with Naval  
15 commander, uh, but the question is does that  
16 day-to-day kind of management issue really matter  
17 as long as the needs at the very highest level are  
18 taken care of, that is, the needs, priorities, for  
19 what kinds of research and so forth.

20 The sense was, I think, of the Committee  
21 was that if particularly -- I mean it's odd. It's  
22 a little surprising, but it's not necessarily

1 broken.

2 DR. KAPLAN: Wasn't there an example  
3 given before, it did become problematic?

4 DR. HALPERIN: The Commander, if that's  
5 the appropriate term, was involved in some, in  
6 part, but they were able to maneuver themselves  
7 out of that fix. So, we didn't make a  
8 recommendation essentially for plucking the  
9 Deployment Research Center out of the Naval base  
10 and out of the structure where it was but place it  
11 somewhere else, although that was considered.

12 There was the issue this would be better  
13 off at Walter Reed, et cetera, et cetera, rather  
14 than at the Naval base at San Diego.

15 DR. KAPLAN: My reason for raising the  
16 point was that it does present some potential  
17 administrative stumbling blocks that I think, as I  
18 recall, we spent a good deal of time discussing at  
19 that time. And I think while there's no firm  
20 recommendation, I think that ideas need to be kept  
21 in mind as the whole gist of this discussion today  
22 is carried forward. It's a potential issue.

1 DR. HALPERIN: It's definitely a  
2 potential issue, but I think you're going to find  
3 lots of issues in the report where the sense is  
4 the next increment to improve the situation is to  
5 have a serious Advisory Committee that has some  
6 supervisory role, and some of these other things  
7 will reveal themselves in time. But my sense is  
8 of the Committee that we weren't ready for  
9 (inaudible). We had present (inaudible) of moving  
10 this research group, which, quite honestly, would  
11 probably be in half, this team who (inaudible).

12 DR. LEDNAR: Dr. Parkinson, Dr.  
13 Luepker, Dr. Lockey. Dr. Parkinson.

14 DR. PARKINSON: Mike Parkinson. Dr.  
15 Lednar will understand this, but particularly  
16 wearing his Dupont hat and in my work at large  
17 employers.

18 The rolling awareness that it's not  
19 about health and wellness, it's not about  
20 deployment health. Putting it in military terms,  
21 it's about human capital management, kind of a  
22 comprehensive analysis and optimization of what

1 the work force brings to a physical organization  
2 and the lessons that are learned about successful  
3 companies that do as well versus companies that  
4 don't, is that you've got to have senior level  
5 line management involved. It is not the HR  
6 Department.

7           So, if anything, we should be thinking  
8 beyond just uniform presence in the Deployment  
9 Center. There needs to be line presence in the  
10 Deployment Center so there is -- there should be  
11 in (inaudible) centers for one who's been in  
12 artillery, because it is the engine that  
13 essentially drives human capital management in the  
14 military to bring the force to do a mission that  
15 they're asked to do (inaudible).

16           So, the integration of the database, the  
17 initial database, which is all about private  
18 sectors saying that we need to have not only the  
19 typical things we have in deployment database, but  
20 we need to have the types of things, like  
21 Disability, Worker's Comp., EAA and absenteeism,  
22 attitudinal services, surveying. This is really

1 where companies are going, and this is how we do  
2 it.

3 I think when the team goes to the other  
4 two sites, they'll find pretty much the same types  
5 of findings, local researchers that stayed local  
6 in or out of uniform with local and command  
7 structures was kind of we're already there and you  
8 put the deployment health thing on top of that,  
9 whether it was the force line or Walter Reed.  
10 It's clear. The function with (inaudible), it's  
11 the same thing if we want to perform at a higher  
12 level to avoid what are predictable loss of  
13 follow-up to even expand to what is expanded human  
14 capabilities or human capital management function.  
15 You've got to have with the right flavor uniform  
16 people to make the statement to the line, because  
17 this is a line assets, it's not those medics back-  
18 of-the-hand type of stuff (inaudible)

19 DR. LEDNAR: All right. Dr. Luepker.

20 DR. LUEPKER: Russell Luepker. I was on  
21 this visit a couple months ago, but I also chaired  
22 the AIBS panel in '05 and '09 and some of the

1 recommendations were the same. I certainly agree  
2 that the reviews need to be folded.

3 A couple things I want to emphasize. I  
4 think Bill has done an excellent job in assisting  
5 our discussion. I'm going to be a little harder  
6 on things. They have a serious participation  
7 problem. It undermines data and it is unclear  
8 they know exactly what to do about it. So, that's  
9 one.

10 The second, you know, the lack of the  
11 military presence there means questions being  
12 addressed, while academic, and some may not be  
13 serving the funding agency, the DoD. And the  
14 third is they're talking about expansion.

15 The new cohorts, you know, this is an  
16 ever-expanding universe and I would say that good  
17 people, very junior and very naive, and, you know,  
18 they're supervising, I don't know, a \$4 to \$6  
19 million a year study, and we need -- I mean the  
20 bottom line is they need somehow to have some  
21 oversight.

22 Ideally, it would be to bring a senior

1 person in and say he or she can run it, but if  
2 we're going to do this, this is not a one time a  
3 year "How are you guys doing?" stuff. I don't  
4 think they're going to get it really. I mean, you  
5 saw that. I mean local people, some of whom you  
6 respect greatly are very detached of this.

7 DR. LEDNAR: Dr. Oxman.

8 DR. OXMAN: I think those criticisms are  
9 all valid and I think one approach that we took on  
10 that was the recommendation of a hands-on Senior  
11 Advisory Committee, the composition of which would  
12 meet under representation of the military, but it  
13 would have to be an Operational Advisory Committee  
14 with responsibilities in that regard.

15 DR. LEDNAR: Sir.

16 CDR LARABY: In restating exactly what  
17 your concerns were or your issues with the Navy  
18 being an executive agent on the Deployment Health  
19 Center?

20 DR. HALPERIN: Certainly. If this were  
21 CDC or NIH this would be a, as they say, a genuine  
22 crown of the institution. It's a very serious

1 mandate that they have. It should get very high  
2 level attention. They seem to be fairly  
3 independent, located at the Naval base, talking to  
4 some local academics and previous people who've  
5 been investigators there, fairly up the river by  
6 themselves.

7           The management of it, the budgetary to a  
8 certain extent has been described by Ed. To a  
9 certain extent, intellectual involvement comes from  
10 the commanding officer of the base, the commanding  
11 officer and executive officer of the base.

12           Now, that's a fairly localized  
13 responsibility for a very high level group. The  
14 question is should the group be moved to a higher  
15 level, but where, where that would be within DoD.

16           In other words, pluck the entire  
17 research unit and put it somewhere where it's in a  
18 better view for doing this kind of research or, as  
19 Russell has reiterated, if it's going to be  
20 listening through a very active advisory group.  
21 We're talking about a trip every two months or  
22 three months with an active group of people

1       engaging with them on what research they're  
2       conducting, how they're conducting it, and what  
3       value they are to their sponsors.

4                It's very different than this being,  
5       essentially, on the periphery by itself. It's a  
6       very good group of people trying, but they're not  
7       -- they're not within an institution of, uh, of  
8       experienced epidemiologists that are closely  
9       supervising what a junior group is trying to  
10      conduct. I don't know how else or more politely  
11      to say it.

12             DR. LEDNAR: Dr. Mason.

13             DR. MASON: Have you been on the  
14      receiving end of ROR with regards to my Center for  
15      Disaster Management?

16             If I could say it in the following way.  
17      Very simply, the Achilles heel from our collective  
18      experiences to date is that although it's very  
19      important to have IRB approval, the review of the  
20      protocols, the review of concepts, the review of  
21      the scientific approach to studies is poorly  
22      documented in no specific evidence in terms of the

1 setting of respective priorities.

2 Now, with respect to the Committee  
3 dealing with ROR, dealing with two very, very  
4 different entities, which you know, I could say to  
5 ROR they say you have a proposal that was, that  
6 you're interested in funding. We all do. So, you  
7 take it up. It gets subjected to my review, it  
8 gets subjected to their review for scientific  
9 merit, and then if we get a green light then we  
10 can start moving it forward.

11 And what we're seeing is that that  
12 particular step, if it's there, it's very poorly  
13 described. The setting of priorities and the  
14 setting of real review of protocols, I spent most  
15 of my career at NIH, yes, I had to go before the  
16 Division Director and all the senior staff to say  
17 this is my idea, this is my concept. If I won,  
18 then I had to go through three more hoops with  
19 regards to the development of my proposal, the  
20 protocol, getting it reviewed and everything else.  
21 So, by the time I was good to go, I was really  
22 good to go.

1                   And that's what we didn't see, and  
2                   that's the missing piece and it's not -- it has  
3                   nothing to do with a few minutes oversight, a few  
4                   minutes of interaction with regards to funding  
5                   screens with regards to all of that. It really  
6                   has to do with do you have -- not you personally,  
7                   and not, specifically, do they have access to and  
8                   are they going to be amenable to that type of  
9                   scientific oversight, because one of the issues,  
10                  quite frankly, was one of their advisory boards,  
11                  prior to our giving the membership, was in  
12                  perpetuity. There's not a group that I know of  
13                  that basically assigns anybody to serve on a  
14                  scientific advisory board for the rest of their  
15                  own natural life. There's something wrong with  
16                  that.

17                  And those are some of the issues and  
18                  some of the questions. They're imminently  
19                  addressable. They really are. And there's --  
20                  it's not any comment, but it's, here are some of  
21                  the issues we've seen and here are the ways  
22                  forward as we perceive them, how can we actually

1       make this, take it back to the original mandate.  
2       The original mandate is very, very broad and very,  
3       very specific, and given the set of circumstances  
4       over the ensuing years, they can't honor the  
5       mandate. That's the problem.

6                 DR. LEDNAR: I guess one of the things I  
7       want to come back to vote, this is a DoD activity.  
8       It's a DoD center and we're all used to working in  
9       highly matrixed organizations. In fact, when we  
10      serve as an executive agent it's fine. Much of the  
11      funding for the work that goes on by this group  
12      comes from Army R&D plant. So, clearly, there are  
13      working across the Services of various types, and  
14      the landlord is the Navy. They've got a  
15      commander, a Navy commander.

16                So, it's one of the pieces that needs to  
17      work are in place, but it really is an operation  
18      that is trying its best in kind of a separated  
19      floating out in its own ocean kind of way without  
20      the interaction with others into bringing more  
21      value. That's how I'm summarizing the operation.

22                So, in interest of time, I'd like to

1       come back to the request for a vote.  So, Bill,  
2       can you basically frame up what it is you would  
3       like the Board to vote?

4                 DR. HALPERIN:  Sure.  We've made eight  
5       or ten recommendations.  They're listed here.  I'm  
6       asking for a vote to move these recommendations  
7       forward.

8                 What that would mean in practice is that  
9       DHB would then have to establish this Senior  
10      Advisory Group, a Senior Review Committee for this  
11      operation.  You have to work with researchers,  
12      identify the advisors, put it in place and start  
13      meeting with them as an advisory group.

14                The others are, uh -- that is the most  
15      practical and strategic recommendation.  There are  
16      other recommendations about, you know, it would be  
17      good if the data would be made available to  
18      outside researchers and it would be good if there  
19      were sabbaticals for doing work with this research  
20      team, et cetera.

21                Those are, I think, valuable  
22      recommendations, but the idea that there should be

1       essentially one advisory group under the auspices  
2       of the DHB, it takes more responsibility for this  
3       is the major recommendation. So long-winded, but  
4       what we're asking for is support for these  
5       recommendations in that we would get into action  
6       and establish the advisory group.

7               DR. LEDNAR: First, in my thinking we  
8       have a motion --

9               DR. MASON: I have a second.

10              DR. LEDNAR: So, now some discussion  
11       about the motion. Dr. Shamoo?

12              DR. SHAMOO: I'm asking the officials of  
13       the DHB Committee, this is sort of an executive  
14       function. We're going to be coming, basically, in  
15       charge of the portfolio of how this blood type and  
16       how this research should move forward.

17              I don't recall -- this is my seventh  
18       year, sixth year or seventh year we've done that  
19       -- I don't know if this is within our, you know,  
20       Charter or Bylaws, and my thinking was that our  
21       recommendations go to the DoD since the Secretary  
22       of Defense, and he forms whatever he wants in

1 collaboration with the Services, and try to  
2 determine that they come back in a year or two or  
3 three saying this is what you guys recommended,  
4 this is what we did, this is the evaluation  
5 process, this worked, this did not work, and if we  
6 still didn't say, heck with you, no, it didn't  
7 work and we send another recommendation and maybe  
8 clean up house. You know what I'm saying. I  
9 don't know if we should be in charge. It's a  
10 seemingly executive function. I don't know.

11 MS. BADER: Actually, Dr. Shamo, you  
12 are correct. The recommendations, you know, are  
13 broad recommendations. They require more  
14 oversight and the Advisory Committee can go to the  
15 ASD(HA). ASD(HA) will decide whether or not that's  
16 something he would like to do and then he will  
17 come forward with his plan, but it's his decision.  
18 You are correct, yeah.

19 DR. LEDNAR: I think that the  
20 Committee's observations have merit on whoever and  
21 however it is operated to improve the value of it.

22 Dr. Winkenwerder's charge is going on

1       eight years ago. It probably would be reasonable  
2       for the current ASD Health Affairs to look at that  
3       in light of today and see whether or not they  
4       support the continuation of that charge or  
5       (inaudible), but if there is are a consolidation  
6       of activity and they are closely interacting with  
7       the deployment health sector in their operations,  
8       whoever does that, and it doesn't necessarily have  
9       to be us, the DHB, that would be a recommendation  
10      that the Board would take under consideration.

11                 So, I think if it were to turn out that  
12      the DHB would be asked to perform this function,  
13      the executive evaluation would have to be what  
14      kind of resources would it take to do that. Well,  
15      are those currently available; and, if not, what  
16      would be the resource gap, and have that  
17      discussion with DoD at that point.

18                 Dr. Shamoo.

19                 DR. SHAMOO: I support all the  
20      recommendations, except delegating the executive  
21      function to DHB. I'm very impressed with the  
22      work.

1 DR. LEDNAR: Yeah. Lisa, Dr. Halperin  
2 is going to ask if you can bring a certain slide  
3 up.

4 DR. HALPERIN: The Board recommends the  
5 revision. If we can just go back to that. Before  
6 that. Before. Before. Before that. There. No,  
7 before that.

8 MS. JARRETT: One more?

9 DR. LEDNAR: One more.

10 DR. WALKER: Maybe members. And the  
11 other is they have advised to be selective, you  
12 know. Those are the two things that mentioned in  
13 the DHB (inaudible).

14 DR. HALPERIN: So, we clearly can read  
15 what the recommendation is. This is the  
16 recommendation. If you will, you might as well  
17 just read through the whole thing.

18 The Board recommends the revision and  
19 restructuring the Scientific Steering Advisory  
20 Committee (SSAC) -- that's what they have now --  
21 into a Scientific Advisory Committee (SAC) that is  
22 responsible for overseeing all activities of the

1 Center for Deployment Health Research. The Board  
2 recommends that the SAC include senior leaders of  
3 the Active Duty and retired, officer and enlisted,  
4 military, regional, and national subject matter  
5 experts, and DHB representatives. The Commanding  
6 Officer (CO), along with at least one senior  
7 leader from the Department of Veterans Affairs  
8 (VA) should serve as Ex-Officio Members on the SAC  
9 due to the implications for veterans.  
10 Furthermore, appointments should be recommended by  
11 the DHB to ASDHA); the ASD(HA) should appoint the  
12 Committee and assign its responsibilities, as well  
13 as determine the appointment duration.

14 So, there really is a key role for the  
15 DHB, but as the thought about the role of the  
16 Assistant Secretary is represented there, as well.

17 DR. POLAND: Can I just clarify  
18 something? Research, you mean in San Diego?

19 DR. HALPERIN: Yes.

20 DR. POLAND: Though we're likely to find  
21 various -- we haven't looked yet, but we're likely  
22 to find very similar issues. I'm just sort of --

1 DR. HALPERIN: I wouldn't prejudge it.  
2 I don't know what we'll find at the other place.  
3 From what I understand, at the other two places  
4 it's not a civilian group that is taking  
5 responsibility, but it's actually active military  
6 that's directly those groups.

7 DR. POLAND: We sort of have information  
8 about one of the three parts and we're making  
9 broader recommendations.

10 DR. HALPERIN: This is just for --

11 DR. POLAND: We're making a  
12 recommendation that would, in a sense, single out  
13 one of the Centers without understanding what help  
14 or assistance or oversight the other two -- and  
15 I'm just wondering do we need to tie the idea that  
16 you have and sort of step it back a little bit to  
17 say that, you know, in essence, since this is  
18 eight years ago from -- since you received the  
19 charge from the ASD, do we need to have the ASD  
20 reissue something that says that all three Centers  
21 ought to be examined in a cohesive set of  
22 recommendations made in terms of what further

1 oversight, et cetera, the same type that are  
2 recognized -- I was on the very first one there  
3 for eight years farther along of follow-ups, et  
4 cetera, et cetera. But I'm just interested in how  
5 it's always better to look at the whole than just  
6 one part.

7 DR. HALPERIN: We operated under the  
8 recommendation start small, start down. That's  
9 the motto. Those who are on the DHB visited  
10 perhaps three years ago now, we had a big dog and  
11 pony show and it wasn't clear what our mandate  
12 was. It was really off. It was only after that.

13 So, we're going back about a year and a  
14 half, two years that the mandate was very active,  
15 very real and very clear.

16 So, my sense is we had the mandate, we  
17 did the review, we have the recommendations for  
18 this Center, which may be different from the other  
19 Centers, and then unless we want to run the risk  
20 of wasting more time and getting it back on track,  
21 which runs the risk of taking what can be a jewel  
22 -- there aren't many cohorts with two hundred

1 thousand plus people around. We run the risk of  
2 losing it, if you will.

3 And I don't think -- my personal advice  
4 is, don't run the risk of losing it. There's some  
5 real questions this group can answer, but we have  
6 to get on top of the answer. The only way to do  
7 that is to get the group together and move on.

8 DR. POLAND: Maybe it's just to  
9 incorporate something that says formally or  
10 informally we've only evaluated one of the three  
11 parts and, you know, an immediate evaluation need  
12 to be performed on the other two so more  
13 overarching recommendations can be made. I mean,  
14 it would seem that there's a certain economy of  
15 scale by having three Centers that could mean --

16 DR. HALPERIN: The three Centers do have  
17 different things, so this is the only Center that  
18 does the cohort follow-up.

19 DR. LEDNAR: Dr. Lockey, Kaplan and  
20 Oxman.

21 DR. HALPERIN: I don't think we're  
22 recommending the scientific oversight of the

1 Centers. We're not doing that. We're just saying  
2 that the Scientific Advisory Committee should be  
3 formulated to be more broad-based, more  
4 representative and a representative of the Board  
5 be on that, but I don't think we want to be  
6 responsible for scientific oversight. We want  
7 feedback of the Board.

8 DR. LEDNAR: Dr. Kaplan.

9 DR. KAPLAN: I just would point out  
10 where I agree with what you've said, there is  
11 another recommendation in there that the three  
12 groups get together on a regular basis, which is,  
13 as I recall from the discussion -- and correct me,  
14 Bill, if I'm wrong -- they didn't do.

15 And, so, they don't even know what the  
16 other two are doing. Nobody. Nobody knows what  
17 they're all doing. And as a way of sort of  
18 getting this together I think this was at least,  
19 in my mind, a way to get started, to have them  
20 start talking to each other. But it takes more  
21 than that, and I think that's what you point out.

22 DR. LEDNAR: Dr. Oxman.

1           DR. OXMAN:  And I believe that we dealt  
2   -- I certainly felt that with respect to this  
3   cohort study to the oversight capabilities and  
4   responsibilities that the NHRC has for oversight  
5   of the program, being as they are founders of the  
6   program.  I'm just wondering if you have actually  
7   captured all of the oversight activities that go  
8   on for this particular program, because their  
9   program does get NHRC command level review that  
10  includes a broad spectrum of expertise to oversee  
11  that program, again, from a programmatic  
12  perspective, and I just ask the question because  
13  I'm curious as to whether you've actually seen  
14  everything that's involved with the oversight of  
15  that particular program.

16           DR. HALPERIN:  I don't know really  
17  there's a way to answer that.  We only learned  
18  about what the Committee was told about as far as  
19  the various review groups, but if there is -- I'm  
20  sorry to put this to you -- if there is extensive  
21  review, it's not evident in the activity in the  
22  group, and that's been manifested by the lack of

1 priorities, the poor response rates and the  
2 concern about the response rates and so forth.

3           So, I don't know. The truth may fit  
4 somewhere in between. The group may be doing  
5 review but we weren't told about it, and at least  
6 we didn't report it. If it's there, it's not  
7 evident in the practice.

8           Just to follow up. I think that's a  
9 very good point. It sounds to me like there may  
10 be a communication misstep. I just attended --  
11 uh, what, it's been about two or three months ago  
12 now -- an IPR for the Millennium Cohort Studies  
13 Program where they went through an in-depth  
14 description and discussion of the Cohort loss and  
15 how they are addressing that issue. So, it was a  
16 significant enough concern at that IPR meeting  
17 that we asked specifically to review that and got  
18 a good indication of what their remediation plan  
19 is.

20           So, maybe the problem is somewhere --  
21 we've got some lack of communication that the full  
22 story is only getting to part of the review

1 groups. So, maybe that's where the real issue  
2 comes, is making sure that we've actually got  
3 visibility of all the correct information.

4 DR. SHAMOO: Again, I would be cautious  
5 in terms of DHB representative, because once  
6 they're in executive function or part of an  
7 executive function oversight, we lose our  
8 independence.

9 DR. LEDNAR: Dr. Poland and Dr.  
10 Parkinson.

11 DR. POLAND: We were just having a  
12 little bit of a huddle, and let me make just one  
13 point here that still accomplishes what I think  
14 the Subcommittee wants to do, but also makes it  
15 palatable at ASD.

16 I think we ought to use language maybe  
17 like you started before to recommend, and now I'll  
18 change it a little bit. Consideration that the  
19 SAC includes senior leaders, blah-blah-blah. I  
20 think after that we get very prescriptive here,  
21 probably inappropriately so, for the ASD is saying  
22 who should serve on this Committee, and maybe just

1       modify the language about we recommend considering  
2       representatives such as, and then list people, and  
3       that we'd be pleased to make recommendations to  
4       the ASD rather than prescribing it should be this  
5       person and this person and this person.

6                 DR. LEDNAR: I think in the very last  
7       phrase of the recommendation as currently worded,  
8       the ASD should appoint the Committee. I think  
9       it's up to the ASD to decide based upon the  
10      presentation of the issues what they think is the  
11      kind of response, but I'm not sure that we should  
12      really be telling the ASD do that. Raise the  
13      issue and make it clear, and then that comes into  
14      the ASD's consideration.

15                Dr. Parkinson?

16                DR. PARKINSON: Mike Parkinson. I agree  
17      with the sentiments currently expressed. I do  
18      think that the term line representation is  
19      important, uniform line representation, again,  
20      like my earlier comments, without specifying who  
21      it is. However, to balance again saying what is  
22      the best practice that the DHB should look to

1 standardize.

2 Here we have a commission of the  
3 Department being the deployment readiness,  
4 deployment health, something that we talked about  
5 going back to when I was still in uniform as a  
6 representative of the Board having standardized to  
7 cross all surfaces at health and readiness issues  
8 (inaudible). We should have an annual portfolio  
9 review of this program at the DHB level for the  
10 full DHB.

11 There were tens of millions of dollars  
12 going into this program that is of central  
13 importance to answer the questions that were all  
14 the time (inaudible) to do. It is our resource on  
15 behalf of the American people to get at. We ought  
16 to make sure it's working right.

17 So, when I look through the notes  
18 there's twenty-five ongoing studies really doesn't  
19 fit with what -- So, it might be in a sense of  
20 that as another part of a recommendation  
21 (inaudible).

22 DR. LEDNAR: Dr. Walker.

1 DR. WALKER: (off mic)

2 DR. HALPERIN: They don't fit together  
3 as part of the problem.

4 I want to respond to the comment a few  
5 minutes ago though. The participation problem  
6 didn't just occur six months or a year ago, it has  
7 been a continual hemorrhage for years now and they  
8 may have a plan now, but they've got seventy  
9 percent of their participants already. This is  
10 should have been a problem solved in 2003 and when  
11 it first began.

12 So, you know, I think that it is not a  
13 new situation we're dealing with. They may have a  
14 new solution, but, boy, once you've lost that many  
15 people for that long, it's a serious problem.

16 DR. LEDNAR: Dr. Walker and Dr. Oxman.

17 DR. WALKER: I think what it boils down  
18 to is they need a good scientific advisory board  
19 to give them advice. There's a lot of words here  
20 and we've suggested changing a few words, but I  
21 think that that sounds real. I think that's  
22 something that the DHB ought to address.

1 DR. LEDNAR: Dr. Oxman.

2 DR. OXMAN: And I think the recent  
3 reports to the Navy reflect that, the local  
4 group's wisdom in taking the input from our visit  
5 as what should be the ongoing input of an advisory  
6 committee.

7 DR. LEDNAR: So, we have a Subcommittee  
8 report. We have a text up on the screen, a  
9 portion of which I think there are some concerns  
10 about whether or not that's going to perhaps be  
11 overstepping our mark, a suggestion of perhaps  
12 getting the points across in a different way as  
13 Craig has suggested.

14 I'd like to propose that with those  
15 considerations that the Subcommittee's report be  
16 accepted and that with the help of Ms. Bader and  
17 others we capture the sentiment of this and the  
18 wording of this so it could be appropriately  
19 communicated.

20 SPEAKER: I so move.

21 DR. LEDNAR: Second? Any further  
22 discussion about that?

1 Dr. Oxman or Dr. Kaplan?

2 DR. OXMAN: Can we presume that that  
3 draft will be circulated back to the members of  
4 the Committee?

5 DR. LEDNAR: Yes, electronically, with a  
6 fairly short circle element of response.

7 Dr. Kaplan?

8 DR. KAPLAN: Yes. Could you tell me  
9 where else it would be -- where is this going to  
10 be ending up, ASD?

11 DR. LEDNAR: I'd say the entry point  
12 from the DHB would be a communication to the ASD  
13 Health Affairs for the individual performing the  
14 duties of ASD Health Affairs.

15 Obviously, where it goes after that for  
16 consideration and deliberation is in the  
17 discretion of the ASD.

18 DR. KAPLAN: Are we potentially out of  
19 line to somehow or other make some suggestions? I  
20 mean, they're all kinds of players in this story.  
21 It goes directly to ASD, no question about that.  
22 Do we think that that other people get this for

1 comment or is that the ASD's job?

2 DR. LEDNAR: I believe that's the ASD's  
3 job, and I think as a Subcommittee that shares its  
4 observations after identifying some issues, does  
5 the ASD Health Affairs looks at it at that will  
6 say, well, who and how will it be best to  
7 understand this to consider what other action, if  
8 necessary, is taken. That would be coordinated  
9 with one of the departments of the ASD Health  
10 Affairs office.

11 Dr. Parkinson.

12 DR. PARKINSON: Thank you, Wayne, for  
13 indulging my fine comment on this, but a number of  
14 lost follow-up is seventy percent, and that number  
15 is real? I think this report underestimates the  
16 gravity of the situation.

17 I mean, unless it's in here, I haven't  
18 quite read it, but the Millennium Cohort Study is  
19 meant to be the go-to cohort for the answers that  
20 we struggled with for decades on this Board, and I  
21 think the level of that attitude and some  
22 benchmarking perhaps from members of the Committee

1 visited to say, well, did you know launching the  
2 Cohort Study will have less sway than military,  
3 over military members, you know, current and  
4 future or (inaudible) here's a benchmark number,  
5 you should be here with potential serious detail.

6 We may be doing a disservice, but that's  
7 the message. Clearly, you know, when it's beyond  
8 smoke but there's fire in the building, you got to  
9 respond with a response. I don't really know what  
10 the other two Centers are doing, but if there's  
11 researchers there, they're going so they can do it  
12 fast. So, that the Department funded this study  
13 (inaudible) I think that would be important too,  
14 we should see a graphic cycling plan in action  
15 that is (inaudible).

16 DR. LEDNAR: Dr. Mason and Dr. Silva.

17 DR. MASON: If I might, that was my  
18 whole reason for sharing with you my serious  
19 concerns. The publications that are coming out  
20 are based on really woefully inadequate response  
21 rates and potentially, potentially to be  
22 misinformed on any one of a number of very

1 important health issues which have an impact on  
2 our Forces. It's that simple. And with respect,  
3 there may well be remedial deficiencies. At least  
4 these recommendations taken in the right sense  
5 suggest that if that scientific oversight, then  
6 you can say why can be done and how realistic are  
7 some of those perspective comments.

8 DR. LEDNAR: Dr. Silva.

9 DR. SILVA: I'm sorry, I missed the  
10 beginning of your report, but this loss of seventy  
11 percent, obviously, is incredible. Do we know  
12 why? Is there a generic reason?

13 DR. HALPERIN: No, we don't know why,  
14 but what we do know from the first visit and with  
15 some of the interviews that we did on the second  
16 visit that there was a lack of the same level of  
17 concern. That was remedied by, I think, the  
18 attention that the researchers there made to the  
19 reviewers from the DHB, and I'm sensing that  
20 there's already a changed sense of concern.

21 As far as what the problem is, my sense  
22 is that it's going to take this Advisory Group

1 going back there every two or three months for a  
2 couple of years, looking project-by-project at how  
3 they're organized, what problems they're running  
4 into and so forth. That's work to be done, and I  
5 think we really need representatives on that work.

6 DR. LEDNAR: So, as we have a motion on  
7 the floor, again, there's a recommendation of the  
8 Subcommittee with some rewording, some care about  
9 what we would propose to do and that is the  
10 assigning of ASD Health Affairs. That recommendation of  
11 rewording is needed.

12 I'd like to call for a vote. So, a show  
13 of hands. All those in favor of the  
14 recommendation as considerations?

15 Any opposed? Are there any abstentions?  
16 Zero. Thanks to the Subcommittee for its work.  
17 Very important issue, obviously, and we will work  
18 to recirculate to the Board a recommendation given  
19 the discussions we've had here. It will be  
20 forwarded by e-mail and it will be a short cycle  
21 time for a response, so if we can get this  
22 communicated ASAP so we can get it.

1                   Dr. Kaplan?

2                   DR. KAPLAN: A little bit off the point,  
3 but how many people here think that with a seventy  
4 percent loss at this time that the patient is  
5 resuscitable withheld or not?

6                   (Laughter)

7                   DR. MASON: Last comment. That's why I  
8 brought up the Air Force for those of you who  
9 remember the POW's from Vietnam with the  
10 repatriated POW's. The Navy did a spectacular  
11 job. They really did a spectacular job. The Air  
12 Force started out doing it right and then they  
13 dropped the ball big time for years with regards  
14 to the Air Force POW's. They were lost. The Navy  
15 said there's got to be -- there's got to be a way,  
16 and they brought them back. We brought back all  
17 the Air Force POW's to Pensacola and we put them  
18 in exactly the same program that the Navy had  
19 maintained over years. We lost some, but we got  
20 it back up to reasonable levels and were able to  
21 actually pursue those. The only way you'll ever  
22 know is by looking seriously at those one million

1 because that was the target population, that's  
2 what they told Congress.

3 DR. LEDNAR: This is a discussion that,  
4 while relevant, we understand the issue and we  
5 have to go forth.

6 I am gratefully passing the gavel to Dr.  
7 Poland to facilitate the remainder of the meeting.

8 MS. BADER: Just one quick announce-  
9 ment. We're actually going to move the break from  
10 the agenda. Please feel free to get up at your  
11 leisure, get a cup of coffee, take a physiological  
12 break as Dr. Mason says, as required, but in the  
13 interests of time I think we need to continue to  
14 move on.

15 Dr. Certain will be briefing on the Task  
16 Force on the Prevention of Suicide by the Members of the  
17 Armed Forces in place of Colonel McPherson, and I  
18 will turn it now over to Dr. Poland for a formal  
19 introduction.

20 DR. POLAND: I'm going to introduce the  
21 very reverent, but never irreverent Dr. Certain.  
22 He's currently a Rector at Saint Peter's, Saint

1 Paul Episcopal Church in Marietta, Georgia. He's  
2 held a variety of different and interesting  
3 positions at a variety of churches through Texas  
4 and Tennessee and Mississippi. He got his BA at  
5 Emery University in 1969 at the School of  
6 Theology, subsequently got his Master of Divinity and  
7 Doctorate of Ministry in 1990 from the University  
8 of the South. He was ordained a Deacon in '75, a  
9 Priest in '76. He's been published in numerous  
10 publications. His most recent published article  
11 is "Wartime Sacrifice" for Chaplain Magazine in  
12 the spring of 2010 issue, and you all have seen  
13 his two books.

14 Reverend Certain's military career began  
15 in 1969, graduating from eighth grade as a U.S.  
16 Air Force navigator. In 1972, during his 100th  
17 mission over Vietnam, his aircraft was hit by  
18 surface-to-air missile and then Captain Certain  
19 spent from 1972 to 1973 as a Prisoner of War in  
20 North Vietnam.

21 His military awards and decorations  
22 include the Bronze Star for Valor, Meritorious

1 Service Medal, Prisoner of War Medal, Vietnam  
2 Service Medal, the Distinguished Cross For  
3 Heroism, a Purple Heart, an Air Medal, the Air  
4 Force Commendation Medal, and the Representative of  
5 Vietnam Cross of Gallantry.

6 Dr. Certain left active duty in 1977 as  
7 I was graduating from college, retired as a  
8 Chaplain in the United States Air Force Reserves  
9 at the United States Air Force Academy on July  
10 8th, 1999.

11 So, Reverend Certain.

12 REVEREND CERTAIN: Thank you. Now that  
13 we've all had a time for fifteen minutes  
14 discussion on the last one, I can hardly wait for  
15 this one. But at least you don't have to vote on  
16 anything. We did this already. So, this is not  
17 very where we've been, as you know, the very  
18 helpful meeting that we had with the full Board  
19 back in July or June, whenever it was.

20 The Task Force on Suicide Prevention by  
21 Members of the Armed Forces was mandated in the  
22 National Defense Authorization Act for Fiscal Year

1 2009, directing the Secretary of Defense to set it  
2 up. It also named the specific expertise of the  
3 fourteen members, seven DoD active duty, seven non  
4 DoD civilians, and to report back to Congress  
5 through the Secretary of Defense. It is different  
6 from the others in that regard.

7 To answer the earlier question today  
8 about the RAND study that was sponsored by the  
9 Secretary of Defense, the Joint Staff and DoD  
10 Intelligence Community and then the Army study was  
11 an Army study, and those things are found in  
12 Appendix I of the report that you have. There  
13 about twenty of them that cost us approximately  
14 \$65 million over the course of three years to  
15 accomplish. Each of them have a slightly  
16 different perspective.

17 For those of you who are scientific and  
18 would like evidence-based anything, uh, that's not  
19 here. We don't have that in suicide prevention.  
20 We have an awful lot of expertise, however, that  
21 worked in it and did our best to find the best  
22 studies, the best evidence, the best practices to

1 recommend to the Secretary of Defense. The  
2 deliverables were required by Congress, and those  
3 are all in the report. The reports you have in  
4 front of you now is a vastly cleaned up, better  
5 organized report than what you saw electronically  
6 a couple months ago.

7 A number of general observations that we  
8 made throughout the time that we were making the  
9 studies and the principal one, that going  
10 assumption is, that while not every suicide may be  
11 preventable, suicide in general is preventable.

12 We do believe we can reduce this rate  
13 and get it back down towards zero. It's sort of a  
14 never-ending challenge to get it down all the way,  
15 but we do believe that there are some things that  
16 the Department of Defense and various Services can  
17 do and do better to get it done right. We don't  
18 know of any other single employer in the world who  
19 is spending as much time and effort to grapple  
20 with the issue of suicide among its employees.  
21 So, we really are pleased with what the Services  
22 are doing in general.

1                   There's some foundational  
2 recommendations that we are making to the  
3 Secretary on Friday.

4                   First of all, to create an OSD level  
5 Suicide Prevention Division under Personnel and  
6 Readiness and to keep suicide prevention in the  
7 leader's lane, that is, not to relegate it into  
8 the medical realm. The medical answer is the last  
9 safety net in suicide prevention. Leadership is  
10 the first. Keeping people aware, working with  
11 people, training people, enhancing resilience,  
12 answering problems as they arise rather than  
13 allowing them to get overwhelming is the key, is  
14 the first key, and -- but some people, poke  
15 through all webbing, and even those who do come to  
16 medical care, psychological care, forty percent of  
17 those still seem to fall through that safety net.  
18 This is not an easily solved problem.

19                   So, here are some general Foundational  
20 Recommendations. We believe that they have to be  
21 answered before anything else will be successful.  
22 And, so, though there are more important

1 recommendations than others, these we believe are  
2 the ones.

3 And that is just that one slide, and you  
4 have all of this in your folder.

5 Since we last saw the whole Board, these  
6 are the events that have occurred as we have  
7 polished this report. Lots of long nights and  
8 all-night sessions, particularly with Colonel  
9 McPherson, our Executive Secretary, who, as the  
10 rest of us went back to our daytime jobs, she  
11 really took charge of all the data, all the  
12 writing and tried to get it into a more coherent  
13 form working with some of the staff.

14 Now, I'm trying to skip over these  
15 because you have the sheet in front of you that we  
16 passed out as you came in today with all of these  
17 things that we heard from you last time and our  
18 responses, and so we encourage you to look through  
19 there and it will reference you back to the full  
20 report so you can see how your concern was  
21 addressed. You can read that a lot better than I  
22 can read it to you, because I know you'll glaze

1 over if I read it to you. So, please do take some  
2 time and become familiar, because what you did  
3 with the Task Force two weeks ago was vital and  
4 the full product that you see in front of you now.

5 Here's what's happening next. Friday  
6 we're scheduled to brief -- or the Chairs are  
7 scheduled to brief the Secretary of Defense, and  
8 then next Tuesday at the National Press Club will  
9 be a two hour press conference scheduled to make  
10 it public. And, so, we do ask, as we said at the  
11 beginning of the day, that you not distribute this  
12 product or show it outside the Board until after  
13 3:00 next Tuesday. After that it's public  
14 information. And we really do appreciate what  
15 you've done.

16 The Task Force, because of the way it  
17 was set up by Congress through the Secretary was  
18 necessarily set up as a Subcommittee of this, of  
19 the Defense Health Board simply because we didn't  
20 have yet Congress to pass a whole bunch of laws in  
21 order to do what they said we had to do.

22 So, some of it is opinion of all of us

1       fourteen experts was that the Defense Health Board  
2       was there as a (inaudible), and I think we really  
3       didn't take into consideration what, that we  
4       needed and final polished product for you first,  
5       and you were very tolerant and very kind and very  
6       generous to us last time, and because you were,  
7       because you asked a lot of good questions and made  
8       some very fine observations, we were able to  
9       really get down to polish it in a much better way  
10      than would otherwise have been possible.

11               And, so, I personally want to thank all  
12      of you as my colleagues for doing that for us a  
13      couple months ago so that we are where we are  
14      today.

15               The copy you have today still has a few  
16      typos in it that we discovered since Monday and  
17      they've been fixed. So, if you find anymore, you  
18      can send me an e-mail and I'll see if we can fix  
19      them.

20               But the other thing that is going on in  
21      the background is that we've asked -- HA has been  
22      asked to extend our appointments for six months,

1 but that's a "what if" situation; what if the  
2 Secretary of Defense asked us to give him more  
3 information, provide a little more work, or do some  
4 of the response to our own report. If that  
5 happens, we need to be in place. We're not  
6 looking to prolong this work any further than  
7 necessary, but, yet, to work in the Department of  
8 Defense.

9 So, I'm pleased with it. I hope you're  
10 pleased with it, and if you have any questions  
11 Colonel McPherson and I will be glad to try to  
12 respond to it.

13 Yes, sir?

14 DR. LEDNAR: Can you just share with the  
15 Board after Secretary Gates is presented with the  
16 report, uh, there are at least two ninety day  
17 cycle events which begin to assure the Board  
18 what's ahead following Secretary Gates being  
19 delivered the report?

20 REVEREND CERTAIN: First of all, the  
21 Secretary has ninety days to have a response  
22 written to attach to this and then go to Congress.

1 First or second. I'm not sure what the other  
2 ninety is.

3 Col McPHERSON: Although at the time  
4 we delivered the report to Secretary Gates we also  
5 provide copies to the Congressional Committees,  
6 Secretary Gates has ninety days formally with  
7 which to forward the report to Congress with his  
8 comments in a cover letter or however he chooses,  
9 and then there's an initial ninety days built into  
10 the language for DoD to have an implementation in  
11 the plan. Obviously, they'll probably just start  
12 as soon as they see HA has been briefed.

13 So, they do have a hard copy, even a  
14 rougher version than this and the work starting,  
15 but that's the two ninety day pieces.

16 REVEREND CERTAIN: One of the onerous  
17 recommendations is increase in the size of the  
18 Force in order to widen out or reduce the  
19 obligation.

20 That's one of those stuck in all the  
21 areas you can for that one, because we know that  
22 that -- that there are all kinds of issues

1 surrounding that (inaudible). But Congress asked  
2 our opinion, so we gave it to them.

3 DR. POLAND: All right. Thank you very  
4 much.

5 Because of travel arrangements we're  
6 going to make a switch and Lieutenant Colonel  
7 Robinson will go ahead of myself.

8 Our next speaker will be Lieutenant  
9 Colonel Robinson. He is the Executive Director  
10 for Psychological Health and Traumatic Brain  
11 Injury. Prior to this role, he was Director for  
12 the Strategies, Plans, and Programs Directorate at  
13 DCoE and recently served as the Combat Stress  
14 Detachment Commander for RC-East during a  
15 deployment to Afghanistan. He also previously  
16 served as the 78th Medical Operations Squadron  
17 Commander at Robins Air Force Base, leading all  
18 health care operations and directing seven  
19 outpatient family clinics, and as the Program  
20 Manager of the Air Force Alcohol Drug Abuse  
21 Prevention and Treatment Program and the Air Force  
22 Drug Demand Reduction Program.

1                   He'll be presenting a potential question  
2                   for consideration and examination by the Board  
3                   regarding the prescribing and use of psychiatric  
4                   medications and the use of complementary and  
5                   alternative medical treatments within the DoD.

6                   His slides are under TAB 8 of our  
7                   notebooks.

8                   MS. BADER: If I can just interject. We  
9                   also have Captain Simmer on the line.

10                  Captain Simmer, can you please quickly  
11                  introduce yourself?

12                  CAPT SIMMER: Sure. Captain Ed  
13                  Simmer, Navy psychiatrist, who formerly was the  
14                  Senior Exec. Director for DCoE, which will be Chris  
15                  Robinson. Now I am a Naval Officer at Beaufort.

16                  MS. BADER: Thank you very much, Ed, and  
17                  welcome.

18                  CAPT SIMMER: Thank you.

19                  Lt Col ROBINSON: Is this  
20                  on? Thank you.

21                  Thank you for that introduction and  
22                  thank you for giving me this opportunity to come

1 forward and seek your guidance on these two  
2 areas. These two areas are certainly related, but  
3 separate, and if I could just give you a little  
4 bit of background on this.

5 Last spring Dr. Rice, in his role as the  
6 ASD Health Affairs, asked these questions about  
7 how much and what is the, in terms of how to  
8 prescribe psychiatric medication and the proper  
9 use of psychiatric medications in deployed  
10 environments, as well as in garrison. And, so,  
11 that was turned over again to Captain Simmer, who  
12 is on the line, and he developed a whole series of  
13 questions, specific questions about having a  
14 handout not on these slides.

15 To address this, and what we're hoping  
16 to get from the Board is guidance on the uses of  
17 psychiatric medications, and then as well as the  
18 use of complementary and alternative medicine.

19 Next slide, please. The reason this is  
20 important is, as you know, this area of taking  
21 care of our greatest resources, our men and women  
22 in uniform, is a hot topic in the media and,

1       certainly, in Congress' eyes these days, so  
2       there's been a lot of attention, a lot of  
3       newspaper articles, a lot of Congressional  
4       testimonies about this.

5               There are separate reports on the use of  
6       medications in our deployed forces.  Actually,  
7       one-sixth -- a report that says one-sixth of our  
8       deployed men and women are on, essentially, a  
9       psychiatric medication; and, also, seeing lower  
10      numbers, between two percent and eight percent of  
11      our total Forces on some sort of psychiatric  
12      medication.

13             Psychiatric medication, as we know, they  
14      vary widely in their safety and addictive  
15      properties, and some are okay to use in some  
16      settings and some aren't.  So, the rules of those  
17      need to be spelled out.

18             When I was deployed, I saw a couple of  
19      things.  One, the use of certain medications and  
20      other medications widely used.  We had a young  
21      private that I'll never forget who was having  
22      sleep problems and went to the Aid Station --

1       hadn't seen me yet or my mental health technician  
2       -- and was prescribed Ambien for sleep problems,  
3       and then walked out mumbling and took the whole  
4       bottle. He had only been given ten, so,  
5       fortunately, it wasn't a lethal dose, but then he  
6       was walking around very much impaired in a fog,  
7       basically, drunk, with loaded weapons as you can  
8       imagine.

9                So, after that one of the things we did  
10       in that area was everybody who was coming forward,  
11       no matter what your rank or job was, if you were  
12       requesting medications you had to be at least  
13       evaluated by us.

14               And, so, that worked out actually,  
15       because some of the folks it made sense that they  
16       were doing some of the medication. Some of the  
17       folks we found had all sorts of other issues, as  
18       well. So, what we're seeking is just some  
19       definitive guidance from this body on how to best  
20       do this.

21               And then the next set of questions on  
22       the use of complementary and alternative medicine

1 I think is also an important area for a variety of  
2 reasons, but also the evidence for these types of  
3 interventions is there.

4 So, one of the things that, you know,  
5 for many of the examples being exercise, yoga,  
6 relaxation, Tai Chi, uh, meditation. Those kinds  
7 of things are what I'm talking about. The  
8 evidence is there. Some as good, some not so  
9 good. A lot of it is anecdotal. They're largely  
10 not covered as a TRICARE benefit, which makes it  
11 then more difficult for us to advocate the need.  
12 So, we're looking forward to some help with that  
13 area, as well.

14 Now, we'll go to the next slide. These  
15 are just examples of some of the questions that  
16 Captain Simmer put together. These questions that  
17 I have again are electronically that can be sent,  
18 but these questions were vetted to the Services  
19 Directors of Psychological Health and a lot of  
20 people put ideas on these questions.

21 The one category to help us out with  
22 medications or PTSD, help us out with medication

1 for Acute Stress Disorder. The category, a  
2 broader category of the psychotropic medication  
3 questions, in general, about safety, about  
4 off-label use versus an indicated use, questions  
5 about are there any special concerns we should  
6 have while using some of these medications in a  
7 deployed environment. And you need all of your  
8 faculties as much as possible.

9 And, so, these are some of those  
10 questions that I'm mentioning. So, what  
11 medications are commonly recommended for PTSD and  
12 Acute Stress Disorder? What psychotropic  
13 medications may be safe for a deployed combat  
14 environment? What medications carry an increased  
15 risk for suicidal or violent behavior?

16 Hence, that's a key over there, because  
17 as opposed to a civilian environment everybody  
18 has, you know, certainly easy access to  
19 (inaudible).

20 And then there's questions about  
21 counseling, how do we incorporate counseling with  
22 the use of medication. These are people that take

1 medication without giving or having counseling per  
2 se.

3           Next slide. What medications might have  
4 potentials for abuse? I already mentioned the off  
5 label question. What policy should be in place to  
6 make sure that we're not promoting drug seeking or  
7 addictive behaviors through our prescribing, and  
8 in terms of just quality and oversight of the  
9 psychiatric medications.

10           Next slide. Certainly, one of the  
11 things that we see is many folks taking a variety  
12 of medications, so it certainly is always a  
13 concern to making sure that they're being  
14 prescribed correctly so that we're not causing  
15 drug interactions that might interact with both  
16 the medications that they're taking, as well as  
17 other over-the-counter or dietary supplements  
18 (inaudible). Finally, the last category is  
19 recommendations. What are the best practices that  
20 we're interested in.

21           The next slide. One more slide. And  
22 then these are the four questions about

1 complementary and alternative medicine.

2           What are the Board's thoughts or  
3 recommendations on the use of these sorts of  
4 medicines? What level of evidence does exist to  
5 support CAM? Does a threshold for standard of  
6 care exist for CAM? And then, certainly, how it  
7 would advise on if/how the Department might extent  
8 the TRICARE program to cover these other benefits.

9           Next slide, please. So, the question  
10 might be, you know, why do we need to come to this  
11 Board to get this kind of information, and our  
12 providers are well trained and we know how to do  
13 literature reviews, but I think that the primary  
14 reason is this is an external body and external to  
15 the military and to the government.

16           I think these, if you were to take these  
17 questions, I mean, your conclusions would carry a  
18 lot more weight.

19           Make no mistake, my role when I was  
20 deployed was to keep the Service members there in  
21 the fight. We didn't turn a blind eye to serious  
22 problems, but, generally, were providing treatment

1 in the field keeping them there. So, we would  
2 definitely use this type of information to train  
3 and educate our deployed combat stress team to  
4 make sure that they had the best information  
5 possible.

6 Finally, on an additional point, I think  
7 that might be helpful and useful to speak with  
8 these who have been recently re-deployed, recently  
9 returned from combat to get their perceptions on  
10 this experience, as well as perhaps looking at  
11 similar professions in that they're working to  
12 keep their members alert in a difficult  
13 environment, such as police, firemen, et cetera.

14 So that concludes my comments, and I'm  
15 open for questions at this point.

16 DR. POLAND: Thank you. I'm not sure  
17 that CAPT Simmer -- CAPT Simmer, would you like to  
18 add any comments?

19 CAPT SIMMER: I think Christopher  
20 summarized it very well.

21 I think the only comment I would add is  
22 that, you know, obviously, there are areas where

1       there has been a good bit of controversy,  
2       especially looking at things like polypharmacy.  
3       And another issue that we have a lot of difficulty  
4       with is when soldiers or sailors, Marines use  
5       prescribed medications with over-the-counter  
6       herbal supplements, those sorts of things.

7                 Those are areas where I think we really  
8       don't have a lot of good information of what we  
9       can do to provide the best possible care for the  
10      people who we are caring for.

11                DR. POLAND: Let me ask a clarifying  
12      question. I assume your questions in regard to  
13      CAM are in the domain of psychological health?

14                CAPT SIMMER: That's correct. Yes, sir.

15                DR. POLAND: Well, let me just make a  
16      comment and then we'll have some discussion.

17                These are very broad questions, and I  
18      think to sort of summarize this, you're asking for  
19      help in devising a guidance document on the use of  
20      psychiatric drugs in CAM for the psychological  
21      well-being in a combat environment.

22                CAPT SIMMER: Yes, sir. That is correct.

1           What I could add is one thing. I would  
2 say in a combat environment and a post-combat  
3 environment when people come back.

4           DR. POLAND: So that's very broad, and I  
5 think that we have one obvious Subcommittee that  
6 can help us. But this is really, I think, broader  
7 than one Subcommittee. I think the way for us to  
8 think about this is to get some discussion about  
9 that point and for us to probably, as an Executive  
10 Committee, sort of decide how best to constitute a  
11 work group that would deal with something quite  
12 this large.

13           DR. WALKER: I think almost certainly  
14 particularly in the CAM area (inaudible)

15           DR. POLAND: First, on a lighter note,  
16 it always strikes me as entertaining of how  
17 pharmaceuticalized we've all become when we  
18 characterize exercise and physical activity as  
19 complementary and alternative medicine. Striking.  
20 You know, I did a whole talk on this on behalf of  
21 the physicians in general articles, the first  
22 thing paper change, rather than your prescription

1 pad (inaudible).

2 DR. PARKINSON: Off the observation, go  
3 with hundreds of copies over the last decade. The  
4 first drugs for all companies we looked at the  
5 better part of seven years are one version of  
6 stress anxiety depressant medications, number one.  
7 Purple pills of some sort, which are all related  
8 to stress anxiety. Herb related things. And the  
9 third is some version of statin. It doesn't  
10 matter what company you're in. It's all the same  
11 three.

12 And that with a volunteer Force where we  
13 know we have people coming in in many cases from  
14 an economic and socio-cultural background where  
15 there's a history of family trauma, perhaps a lack  
16 of resiliency, coping skills and they look for  
17 quick and fast solutions, and I think that  
18 six month timeline is probably -- is probably  
19 unrealistic is my first reaction.

20 I think that serious benchmarking,  
21 looking at the DoD bases versus similar  
22 occupational equivalents in the civilian sector is

1 first to determine where we may be against the  
2 prescription patterns that we see. I think that's  
3 very doable, but I don't think we can go at this  
4 point with anecdotes and with stories and with  
5 fast clips, although my sense is that this is a  
6 big issue and I'm glad it's here, but I don't  
7 think the timeline, my first reaction is  
8 realistic, and I think to do it right we have to  
9 take the high level now and look at other issues  
10 going forward.

11 DR. LEDNAR: Wayne Lednar. In addition  
12 to what Mike Parkinson just mentioned, as we think  
13 about the group we are keeping in mind as we think  
14 about this are those in theater or, at least, in  
15 return from theater, but part of that group are  
16 the Reserve or National Guard.

17 Several things about them. One is they  
18 may be older than the rest of the Active Duty  
19 force. They're going to bring to their service  
20 and bring to the combat environment the  
21 prescribing patterns of their doctors at home.  
22 And, so, we're going to see plenty of SSRI

1 utilization mostly on statins, particularly as the  
2 recommendations of intervening have gotten into  
3 lower, lower numbers and lower, lower ages,  
4 particularly to the point where it's going to be  
5 like fluoride maybe even put in the water.

6 So, I guess the last point, these are  
7 questions where the expertise, especially, are  
8 currently. And, secondly, does it align with the  
9 existing Subcommittee structure?

10 So, I think it's going to require  
11 assembling the right expertise and individuals  
12 from outside to assemble the right expertise.

13 DR. SHAMOO: I just want to add we're  
14 dealing with a vulnerable group and it's important  
15 to realize that.

16 DR. POLAND: Charlie.

17 DR. FOGELMAN: My first thought about  
18 this -- actually, I got a heads-up about this  
19 person I've spoken about a little bit. My first  
20 feeling is that going into this, among the things  
21 he would ask about is the interaction of all of  
22 this with alcohol and other substances, which is

1 not anything I've heard anybody say, but I just  
2 know that it's a big piece of it, in terms of  
3 where it fits and how it should be approached.  
4 Indeed, we talked about a number of these issues  
5 along the way in our Committee. It's  
6 unquestionably the case that our Committee cannot  
7 by itself do all of this in six months. We would  
8 certainly want to have outside experts.

9 My only suggestion includes the  
10 Executive Committee think about it. That way --  
11 our next meeting is in November, so we should  
12 have time for a proper review or just, I guess  
13 (inaudible) how to approach it. We should  
14 probably use that meeting as a point for a larger  
15 discussion or else we'll have all the  
16 psychologists and other folks on board present.

17 DR. POLAND: Thank you. Russ.

18 DR. LUEPKER: Let me go back to  
19 something Mike said, that, you know, I think to  
20 approach this problem you got to know frontwards  
21 who's saying what. You paint a broad stroke here  
22 of things, and, you know, I have no idea how many

1 are on Ambien or Prozac or whatever. That would  
2 be very helpful to know.

3           RADM SMITH: This is getting a little  
4 tactical, but the good news is that we know pretty  
5 much what everybody is on because when they get it  
6 from CVS, as long as we pay for it we're well  
7 aware of what it is. Within theater, however, we  
8 do not have that familiarity at all. It's in  
9 paper records maybe. It might be in electronic  
10 records, but probably we won't have that  
11 information.

12           Another point is to try to make sure  
13 that we've got it honed right, is this is  
14 specifically looking for guidance relative to  
15 mental health related conditions presumably,  
16 because another overlay -- and that's primarily in  
17 the media -- is, obviously, the explosive use of  
18 pain medications as opposed to the civilian  
19 community.

20           A CDC study just showed over the last  
21 fifteen years ten times the increase in the use of  
22 pain medications, and we are certainly seeing

1 within the military a commensurate increase in  
2 that use. And then our concerns about abuse of  
3 that.

4 But that is a separate, presumably, area  
5 that we don't want to -- there's clearly -- this  
6 has been diagrammed. There's clearly an overlap,  
7 but I would think we would want the questions  
8 you're asking. I'm just asking this to clarify,  
9 to make sure we don't want to get into that in  
10 terms of the issues, and it looked like some  
11 questions, that they were staying away from that  
12 particular part of the whole idea of prescription  
13 medications.

14 SPEAKER: I know. I guess I am worried  
15 if we don't have any data in the theater, but  
16 local. It looks like (inaudible).

17 DR. POLAND: I think the point is almost  
18 absent, that information. We can provide the  
19 information that could begin to form a guidance  
20 document for the use of these medications in the  
21 theater, whether fifteen percent or twenty-two  
22 percent are using them is, for the purposes of the

1 questions we're asked here, irrelevant.

2           RADM SMITH: One other point is we do  
3 have guidance presently for the use of  
4 psychotropics in theater. So, this is a much more  
5 extensive look at it and trying to get more, uh --  
6 you know, it's presently a Level 3 evidence that  
7 guided that guidance.

8           DR. POLAND: Dr. O'Leary.

9           DR. O'LEARY: Yeah. I mean, the current  
10 preference level, that is really not the issue.  
11 The question is, what are the pharmacologic  
12 physiological effects on people who are in the  
13 theater. That seems to me to be the creation of  
14 something like best practices or medical practice  
15 guidelines, which may be a stretch for this group,  
16 but I don't know who else is going to do it  
17 because it is about the theater and the  
18 post-theater activities.

19           DR. POLAND: Mr. Fogelman.

20           DR. FOGELMAN: Well, yes, but there is  
21 also going to be a question about control. We  
22 will have guidelines and recommendations, because

1 one of the things that goes on in the theater,  
2 many, many people will -- people trade medicines  
3 all the time, and that just because they're  
4 prescribed in a certain way or dispensed in a  
5 certain way doesn't mean they're used in a certain  
6 way. That's what happens in the Continental  
7 United States, as well.

8 DR. POLAND: Dr. Walker.

9 DR. WALKER: What is the right use, if  
10 any, of hearing (inaudible) for therapeutic and  
11 drug use (inaudible)

12 DR. POLAND: Which environment are you  
13 talking about?

14 DR. WALKER: What percentage of people  
15 covered (inaudible).

16 RADM SMITH: We just kind of looked  
17 at this and the, uh, it's -- the guidelines we  
18 have, a hundred percent coverage over the course  
19 of a year, and all the Services do that. The  
20 compliance of that and all is what we're now  
21 looking at to see, and it's clearly some questions  
22 about how well that is being done. There's just

1       questioning some of these things that are  
2       comparison-based, et cetera.

3                 But the numbers coming out of theater  
4       proportionately are a little bit less than the  
5       numbers from the garrison, but we felt that  
6       they're pretty reasonable considering the work  
7       environment.

8                 DR. WALKER:   So, you have a lot of data.

9                 RADM SMITH:   We have data of what  
10       we're watching -- I may have misunderstood your  
11       question, but I'm talking about drug urinalysis,  
12       and we have very good data as to what we're  
13       catching on that those.

14                Now, there's another issue that we don't  
15       test for full spectrum of drugs for.  In other  
16       words, there's a lot of discussion about expanding  
17       that.  For example, Hydrocodone is not part of the  
18       routine tests, Oxycodone is.

19                So, we have some, a fair amount of data  
20       that will help with your discussions.

21                DR. POLAND:   General Myers.

22                GENERAL (ret) MYERS:  You have talked about

1 the questions around the PTSD. What about  
2 traumatic brain injury?

3 Lt Col ROBINSON: Well,  
4 certainly, that's a related set of problems just  
5 because we know people with traumatic brain injury  
6 that have PTSD, as well. What we don't know if  
7 one happens first and the other one follows.

8 But, certainly, what we would hope is  
9 that when people have a traumatic brain injury  
10 that our providers then would use a regular  
11 evaluation, they make the right decision, types of  
12 medication that can be prescribed in the presence  
13 of that type of injury.

14 Does that answer your question?

15 DR. POLAND: I think so, for now. Okay,  
16 Tom. One last question or comment and we'll leave  
17 you alone.

18 DR. MASON: Just a quick comment. Is it  
19 possible that within those sources, there's not a  
20 way in which it would assist the concern about the  
21 Guard and Reserves (inaudible). For example, try  
22 to gather some information, because I don't know

1       whether --

2                   DR. POLAND:  Those are interesting  
3       questions, but not relevant to the questions that  
4       we were asked.

5                   We're going to move on.  We've got some  
6       jerry-rigging of the schedule here.

7                   The next presentation will be delivered  
8       by Dr. Wiener-Levy.  She has been at the United  
9       States Military Academy at West Point since 2004  
10      and has served as Clinical Director since 2006.  
11      She previously held appointments at South Beach  
12      Psychiatric Center, Staten Island Hospital,  
13      Westchester Jewish Community Services and  
14      Westchester Medical Center/New York Medical  
15      College, where she also had a faculty appointment.

16                  Accompanying her will be Cadet Morghan  
17      McAleney.  Cadet McAleney is an honors-psychology  
18      major who served as a Cadet-in-Charge of the Cadet  
19      Counseling Unit during Basic Training in 2010.  
20      Currently, she serves as Company Commander for H-3  
21      and is interested in pursuing a career in  
22      counseling.  She has received recognition for

1 highest average in courses taken in Civil  
2 Engineering, Information Technology, and Psychology  
3 Research and Methods.

4 Both Dr. Levy and Cadet McAleney will  
5 provide an overview of the Center for Personal  
6 Development and the Cadet Counseling Unit.  
7 Established in 1967, the CPD provides counseling  
8 for cadets on various topics, including personal  
9 development, interpersonal development, decision  
10 making, trauma-related stress, and crisis  
11 situations. The Center also conducts outreach  
12 programs, victim advocacy, suicide prevention, and  
13 referrals for psychiatric consultations, as well  
14 as consultative and training services for cadets  
15 and faculty.

16 Her slides will be found under TAB 9.

17 DR. WIENER-LEVY: Thank you. I'm real  
18 happy to be here today at CPD, which is the Cadet  
19 Counseling Center. We really welcome the  
20 opportunity to talk to people about who we are and  
21 what we do.

22 I can tell you that the tactical

1 officers swear to me that the Counseling Center  
2 was not around when they attended West Point, and  
3 since tactical officers pretty much graduated in  
4 the late '90's, uh, and thereafter I think CPD was  
5 around. So, hopefully, we've come along way.

6 The CPD mission. The primary mission of  
7 CPD is to provide counseling services for cadets.  
8 We see cadets. There are other organizations that  
9 provide services for active duty folks and their  
10 families, but we see cadets only. We see cadets  
11 for -- some cadets that we see, we see throughout  
12 their tenure at West Point. We drop in a couple  
13 of times a year every year, and we're happy to do  
14 that.

15 Our secondary mission is to provide  
16 consultation. We get calls lots of times from  
17 staff, faculty, tactical officers concerned about  
18 somebody not eating, somebody whose behavior seems  
19 to have changed, somebody whose appearance seems  
20 to have changed. They're asking us what to do,  
21 and what we try to do is get the tactical  
22 officers, especially, to have the cadets come over

1 voluntarily, because those are the kinds of  
2 referrals that really work out a lot better where  
3 the people come to us voluntarily other than being  
4 referred by their commander.

5           Last year we took on a project of trying  
6 to meet with each of the members of the Class of  
7 2013. It was our hope that by providing these  
8 routine meetings, it would help decrease the stigma  
9 around our organization, since pretty much  
10 everybody would have walked through our doors. We  
11 did see about half the class. Again, hopefully,  
12 at least that half that we saw, that was through  
13 one semester, we saw about five hundred cadets for  
14 outreach, and then we're hoping that the short  
15 interaction, which was totally not clinical, was  
16 enough to tell them something about who we are and  
17 if they run into some kind of snag along the way  
18 during their four years here they'll come back to  
19 us.

20           So, our priorities are, of course,  
21 cadets. We try to reinforce the notion that we  
22 are a Force multiplier. We're not looking to send

1 anybody home. We're not looking to get anybody  
2 separated. We're not looking to get anybody a  
3 leave of absence. We're looking to help people  
4 struggling through a crisis, a personal crisis  
5 that may occur and help keep them here.

6 We know that this is a stressful place,  
7 and it's not a surprise that from time to time we  
8 have young men and women, eighteen, nineteen,  
9 twenty, who have all sorts of other developmental  
10 issues that they're struggling with, so now that  
11 they have the West Point stressors, which are  
12 unique on top of that.

13 Finally, we respond to crisis situations  
14 that I'll talk about a little bit later. We are  
15 on call twenty-four hours a day, seven days a  
16 week. We are on call. We have a call person even  
17 when the cadets are on leave, and we reinforce the  
18 number. We tell them the number. We publish the  
19 number, so that even if they're nowhere near West  
20 Point they can call us and we'll be right there to  
21 the emergency room. And sometimes it's actually  
22 not about themselves, sometimes they're truly

1 calling about a friend.

2 This is our organization. Ten colonels  
3 and Director of CPD. I am the Clinical Director.  
4 I've been at West Point since the spring of 2004,  
5 and we have two other psychiatrists who are  
6 relatively new to the field.

7 So, we have been accredited by IACS  
8 since 1978. That is the organization that  
9 accredits counseling centers around the country.  
10 Any college, any college university, any  
11 self-respecting college university has a  
12 counseling center, because it's well recognized  
13 that there are developmental challenges that occur  
14 without the existence of psychopathology in the  
15 ages that we're talking about.

16 So, we're in many ways, you know,  
17 different than any college counseling center  
18 you'll find anywhere else in the country.

19 Standard Operating Procedures are in  
20 accordance with IACS, HIPAA standards, AMEDD  
21 standards and APA's Ethical Principles and Code of  
22 Conduct.

1           We are confidential, but we do have  
2 limitations to confidentiality. We're very up  
3 front with cadets about those limitations. The  
4 most significant one here is at West Point is if  
5 somebody is an imminent danger to themselves or  
6 someone else, we will not keep that secret, and  
7 they're pretty aware that we are going to be  
8 talking with someone, either hospitalizing them or  
9 just talking and letting their tactical officers  
10 know that they are struggling and that maybe  
11 somebody needs to just check in on the person over  
12 the weekend so that a weekend or a long weekend  
13 doesn't go by without somebody, you know, knowing  
14 what this person is up to.

15           Most of our referrals are  
16 self-referrals. Occasionally, we get what we call  
17 Command referrals, and we'll see somebody doing an  
18 evaluation, and usually that will -- that occurs  
19 when somebody is worried about someone, for the  
20 reasons I talked about earlier, and they just want  
21 to get a sense of where this person is at now.

22           We do not do fitness for duty

1        evaluations.  As you can well imagine, if you have  
2        a counseling center that was doing fitness for  
3        duty, we would just about kill our business.  So,  
4        we're very clear, we do Command referrals but  
5        never fitness for duty evaluations.

6                    We get referrals from medical clinics.  
7        Just today we got a referral about a cadet.  A  
8        doctor was concerned about some of the behaviors  
9        that have been going on that she's been reporting  
10       to the doctor, called us, and we were able to see  
11       the cadet immediately.

12                   The instructors do not maintain a  
13       waiting list.  Very often we get a call --  
14       especially, if we get a call in the morning we get  
15       somebody in.  We try to set aside what we call a  
16       walk-in time.  If somebody calls at 7:30 in the  
17       morning and says I got somebody that really needs  
18       to be seen, we have an open hour where we can tell  
19       them to come in and do an evaluation.

20                   It doesn't have to be a life or death  
21       situation all the time.  Whenever possible, we'll  
22       accommodate somebody who experiences what they're

1 going through. We consider them to be a crisis.

2           There are a multitude of reasons people  
3 come in to see us. Probably the most reason  
4 people come to see us is, I would say, mood.  
5 They're experiencing increasing irritability,  
6 difficulty with anger management, depression.  
7 They're not sleeping or they're taking an awful  
8 lot of time to fall asleep. And you know very  
9 quickly sleep is really at a premium, and nobody  
10 here can afford to toss and turn for an hour or  
11 two hours until they fall asleep. Loss of  
12 appetite.

13           So, we do see quite a number of cadets  
14 who experience depression, interpersonal issues.  
15 You have young men and women here who are sort of  
16 wrenched at the age of eighteen out of their home  
17 environment in many cases, and this is all really  
18 very new to them and they really haven't had to  
19 share with other people before.

20           A lot of boyfriend and girlfriend  
21 difficulties, of course.

22           Anxiety. DCoE have some folks who see

1 active duty, so we do see some PTSD, not just for  
2 post-deployment, but PTSD related to other issues,  
3 as well. Certainly, a number of them come in here  
4 with a history of sexual assault prior to the  
5 Army. That would be included in that group.

6 We work with folks around eating issues.  
7 Sometimes it's about simple overeating or wanting  
8 to lead a healthier lifestyle, but often it's much  
9 more serious eating problems.

10 So, the good news is that the visits  
11 have actually doubled. We have the same number of  
12 staff members since I got here in the spring of  
13 2004, and last year we saw about twice as many  
14 people as we saw in the academic year of  
15 2003-2004.

16 The interesting is that the same  
17 (inaudible). So that October is peak month for  
18 us. February, early March is a peak month, as  
19 well. And, again, we saw an elevation in all  
20 months, but the patterns remain the same, which is  
21 sort of interesting.

22 Our continuing concern is, of course,

1 the stigma. You know, no matter how many times we  
2 brief cadets and we tell them that this is  
3 confidential, that they can't get booted the out  
4 of the Army, the first question they ask when they  
5 come in is, "is this confidential? What is this  
6 going to do to my career? My mother told me never  
7 to come here, never to talk to the psychologist  
8 because it would ruin my Army career."

9           It's a problem, and it continues to be a  
10 problem. Again, the fact that we've doubled the  
11 number of visits I think reflects the fact that  
12 some of the stigma are falling by the wayside, but  
13 it's still something we hear a lot of. Cadets are  
14 very angry when their friends insist that they  
15 walk over and see us, and we do get quite a number  
16 of cadets who come to us because their friends,  
17 they are very concerned about them and their  
18 friend says either you go see them voluntarily or  
19 I'm going to tell your tactical officer and  
20 they'll force you to go. And, uh, that number has  
21 been increasing, as well. And cadets are  
22 frightened, and they don't want to keep secrets,

1 and that's a good thing.

2 Confidentiality remains always an issue.

3 I think that sometimes it's the tactical officers  
4 and the Commanders feel that they should have  
5 information which, again, would be compromising.

6 One of the things we promised them all  
7 the time, and I say it very clearly to tactical  
8 officers, if I'm worried about a cadet and I'm not  
9 going to sleep tonight, I'm going to share that  
10 with you because I don't want to -- and I'll never  
11 send you back somebody that I think is an imminent  
12 danger to themselves or somebody else.

13 Some of our other activities. As I  
14 said, we tried to do as much outreach as possible.  
15 We had gotten involved with teaching. We have  
16 taught in the basic psychology course, uh, BS&L  
17 100, which every plebe takes, and they usually  
18 invite us in. I think it's around Lesson 37 or  
19 38, which addresses psychopathology and treatment.  
20 There's another lecture on PTSD. So, very often  
21 we guest lecture in those courses. There's a  
22 BL387 course, which is the Foundations of

1       Counseling, and instructors have designed a course  
2       so that one way of satisfying course requirements  
3       is by coming to three, what we call non-clinical  
4       visits, so that people who are taking a counseling  
5       course get a taste of what counseling means, what  
6       it's like to sit across the table from somebody  
7       who asks you these very personal questions, how  
8       difficult it can be to, you know.

9                 Sometimes we assume that people who  
10       don't talk to us are being intentionally  
11       resistant, and, really, it's about having  
12       difficulty sharing. It's not something that's  
13       intentional in other ways.

14                We have a newsletter that we do. We try  
15       to do it every other month. It's meant to be a  
16       really informal chatty newspaper on topics that  
17       interest them.

18                So, for example, one of the things that  
19       we do very often is around, uh -- in February we  
20       have Valentine's Day. We put out a newsletter  
21       that focuses on relationships. Or in May we might  
22       put out a newsletter that focuses on transitions,

1       because we have a whole class of folks that are  
2       going out into the Army, we have people who are  
3       going out into all sorts of different experiences,  
4       so we talk about transitions. And, again, it's  
5       our hope to talk about some of the growth that  
6       takes place and some of the things that they can  
7       work on in a non-pathology kind of way so they  
8       will feel free to talk.

9                We have served as advocates. So, it's  
10       another piece of what we do. We will accompany  
11       cadets to the investigating office. We will  
12       accompany cadets to the hospital, if they need to  
13       have a rare exam done. We meet with them and  
14       explain to them what the different options are for  
15       prescriptive or non-prescriptive.

16               They've heard it before, but what cadets  
17       will always say to me is so now I heard it, but it  
18       didn't have anything to do with me so I didn't  
19       really listen so I didn't know what I was supposed  
20       to do. And what we try to do is push them in the  
21       direction of counseling.

22               One of the things the lawyers cautioned

1       us against about the adherence to this program,  
2       the person who serves as the advocate should not  
3       always be the person who serves as a counselor.  
4       So, hopefully, we can be effective in getting  
5       people into counseling because that's certainly  
6       part of recovery from a trauma.

7                 As I mentioned before, suicide  
8       prevention is, of course, important for us. We  
9       are on call. Increasingly, we have been called to  
10      the hospital during our on-duty hours to evaluate  
11      people who need psychiatric hospitalization.

12                Frequently, we find it necessary to make  
13      referrals for medication. We do have cadets who  
14      are on antidepressant medication for the most  
15      part, so we work very closely with one of the  
16      psychiatrists that we meet twice a month with. We  
17      talk about the people that he is medicating, talk  
18      about how they're doing, and we think that that's  
19      a really important piece of what we do.

20                Sometimes we get these young men and  
21      women who are on medication for maybe a year and  
22      they come in and look for medication and they're

1       able to function very well. So, that's an  
2       important piece of that, that it's available to  
3       them now.

4                   I will say that when I first got to West  
5       Point the person who hired me said, okay, they get  
6       one trial, an antidepressant medication for six  
7       months. And I kind of looked at them, six months?  
8       The conventional wisdom is you take nine months to  
9       a year and then get tapered off. So, that's kind  
10      of like sending a boy to do a man's jobs. What's  
11      the point of putting somebody on medication? And  
12      if you do the arithmetic, if you don't get the  
13      right medication the first time, which is entirely  
14      possible, you have to go to a second medication.  
15      A person can be on medication for about eight  
16      weeks until they're on the right dosage and you've  
17      already eaten away eight weeks out of the six  
18      months. Fortunately, that's changed, and I think  
19      that eventually it's a major stride in the  
20      emotional care of cadets.

21                   The difference between a Command  
22      referral and a referral, a self-referral, which we

1 ask the cadet to sign a release so we can speak  
2 with their -- it changes the customer so that the  
3 cadet's record -- if it's a Command Directive  
4 Referral, the tack has access to the entire  
5 record, which is why from the cadet's point of  
6 view it's always better to do a self-referral with  
7 a release, and that usually happens, but about  
8 half a dozen to two dozen times a year we have  
9 cadets who are dead-set on coming to see us and  
10 they are Command Referred.

11 We meet bi-monthly for our multi-  
12 disciplinary team for the treatment of eating  
13 disorders, which is really, probably the preferred  
14 way of treating individuals with eating problems.  
15 We do get cadets who are purging, cadets who are  
16 binging and purging, cadets who are binging,  
17 cadets who are on the Army Weight Control Program.  
18 We work with a dietician and one of the doctors to  
19 help them get to where they need to be and to  
20 establish healthy eating patterns.

21 Of our cadets who are purging and  
22 binging they are using those as coping mechanisms,

1 and so what we try to do is help them in applying  
2 healthier ways in whatever they're trying to cope  
3 with so that they're not engaging in that kind of  
4 self-injurious behavior. You can get frequently  
5 sick if you purge. And, of course, anorexia is  
6 also very dangerous.

7           This is what cadets see. This kind of  
8 information is what will pop up through their  
9 Homepage, and so they can access us very easily.  
10 They can call, they can e-mail, they can walk  
11 over. We try to make ourselves as available as  
12 possible.

13           Again, we're very happy when we increase  
14 our business because it means -- it doesn't mean  
15 that people are necessarily having more problems,  
16 it's people are much more willing to talk to us  
17 about those issues and, hopefully, get stronger  
18 and feel stronger and feel more resilient as a  
19 result of talking to somebody.

20           Now, Cadet McAleney is going to speak to  
21 you about the Cadet Counseling Unit, and I'll take  
22 any questions after that.

1                   CDT McALENEY: Good afternoon, ladies  
2                   and gentlemen. My name is Cadet Morghan McAleney,  
3                   and this past summer I fulfilled my leadership  
4                   detail as a Regimental Counselor. This is also  
5                   known as a Cadet-in-Charge of a counseling unit.

6                   Today I am going to talk to you about  
7                   the organization of our counseling unit and  
8                   present an outline of the counseling training and  
9                   highlight our responsibilities.

10                  This past summer there was eight  
11                  counselors, one per cadet per company. The  
12                  counselors had -- oh, excuse me -- each counselor  
13                  had a sister company. Alpha and Bravo were both  
14                  under the supervision of Captain Ruscio, who is a  
15                  graduate student, and Dr. Wiener-Levy. Charlie  
16                  and Delta were under Captain Hsiao. Echo and F  
17                  were under Captain Agnor. G and H were under  
18                  Colonel Supplee. I'm in charge of all the  
19                  counselors, and I reported to Counselor Hsiao, who  
20                  reported to the current Colonel.

21                  Our basic mission was the successful  
22                  execution of the CBT mission by preventing

1 psychiatric casualties, providing counseling  
2 services to new cadets, providing crisis  
3 management 24/7, and serving as a mental health  
4 consultant to Tack Officers, Tack NCO's and the  
5 chain of command, because the counselors were  
6 imbedded to the companies themselves. They were  
7 able to be available to the cadets 24/7 who were  
8 having serious issues in the middle of the night.  
9 They knew where their counselor was and was able  
10 to go to the counselor in the middle of the night  
11 and receive the help they needed.

12           Before we actually began counseling we  
13 had to have training and then we became certified  
14 in counseling. We learned listening skills,  
15 crisis intervention and suicide prevention, intake  
16 assessment, diversity in counseling.

17           Our favorite was relaxation and  
18 breathing techniques. A lot of times cadets don't  
19 know how to take a step back and breathe, so we  
20 use this ourselves. We use it ourselves when  
21 helping new cadets and we also are using it in  
22 helping our chain of command and our classmates.

1           The typical day, we wake up at 0500 when  
2           the cadets attended morning PT. After PT we had  
3           breakfast, and then after breakfast at 0845 we  
4           would attend Supervision. The sister companies,  
5           we'd first go to Small Group Supervision with  
6           their supervisors, and at 0945 we would come  
7           together as a day group.

8           The point of Supervision was to go over  
9           the counseling of the previous night and make sure  
10          that we had addressed everything and looked back  
11          on the new cadets that we had seen. At sometimes  
12          we needed further guidance from our supervisors.  
13          They would suggest what to go back and talk at  
14          that time with the new cadets about, and then in  
15          Big Group we were able to discuss cases that were  
16          a little bit different or we could discuss as a  
17          group and see what we would have done differently,  
18          and, hopefully, apply it to the next new cadet.

19          After Supervision it was then that the  
20          counselors had to return to their companies. In  
21          some cases, a lot of cases actually, the  
22          counselors had to go out into the field. So, we

1 were issued a Humvee, which I had control of, and  
2 after Supervision I would take the Humvee and  
3 drive the counselor back out into the field to  
4 look for land navigation, repelling, and various  
5 training.

6 At the bottom it says, "On call for  
7 psychological emergencies." Our counselors were  
8 allowed to take two passes, one per day. When the  
9 counselor was on pass another was to cover, so the  
10 new cadets are never without a counselor. If in  
11 some cases the new cadets did not want to see  
12 their sister co-counselor, I was also available to  
13 cover them.

14 We fell under the same licenses as our  
15 supervisor, and because of this we follow the same  
16 ethical code. Before every counseling session we  
17 discuss confidentiality with the new cadet and  
18 they were asked to sign an Informed Consent, as  
19 well as the Privacy Act Statement. We maintain  
20 confidentiality between a new cadet and ourselves.  
21 We do encourage new cadets to fill out a  
22 Disclosure of Information, but we could not

1       promise chain of command members if they do this.  
2       We used tactical in talking to the chain of  
3       command members to let them know what the  
4       situation was and so they could stay involved.

5               There are limits to our confidentiality  
6       if a new cadet expresses to us that they were  
7       harming themselves or harming somebody else.

8               We encourage squad leaders to be the  
9       first line in counseling a new cadet. When the  
10      squad leader needed advice, expertise was  
11      available if the squad leader felt they couldn't  
12      deal with it or they would like somebody else to  
13      handle them, we would counsel the new cadet.

14              We also referred the new cadet  
15      (inaudible). We would never take a new cadet  
16      without letting the chain of command know where  
17      they were.

18              And we're a big part of the  
19      resignations. When a new cadet came to us and was  
20      discussing possibly resigning, we stayed neutral  
21      and helped them see both sides of the situation so  
22      they can make an informed decision. However, we

1 were not the resignation process. If a new cadet  
2 decided they definitely wanted to resign and told  
3 their counselor, we would send them to their squad  
4 leader, who would counsel them, and their Chair  
5 Command would counsel them, and we would meet them  
6 again for regular resignation counseling.

7 This past summer we conducted over four  
8 hundred official counseling sessions. An official  
9 counseling session usually lasted about an hour,  
10 and we saw almost two hundred new cadets. Our  
11 counseling sessions happens any time during the day  
12 because of the change of detail, whenever that  
13 was, had a side source available we would counsel,  
14 because we didn't want to take new cadets out of  
15 training or away from their squads.

16 We engaged in over one hundred curbside  
17 counseling sessions. A curbside counseling  
18 usually would happen when the counselors and  
19 cadets were out in the field. Because we didn't  
20 have the proper environment to sit down and have a  
21 full counseling session, we'd take about fifteen  
22 minutes, check in on the new cadet and see how

1       they were doing. My counselor attended EPR, means  
2       to see cadets with physical ailments, and my  
3       counselor neutralized two potentially new  
4       life-threatening physical ideations. They were  
5       quickly and efficiently brought to the ER where  
6       the licensed psychologist met the new cadet and  
7       they were transported to Four Wings in a timely  
8       manner (inaudible).

9                We help new cadets who are in need of  
10       psychiatric help get the help they need.

11               At the end of the summer we looked at  
12       all our cases and we decided if the case needed to  
13       be transferred to CPD or closed. If it needed to  
14       be transferred, CPD would take the new cadet's  
15       name and send them an e-mail. Transferred doesn't  
16       mean that they had to go to CPD, it just means  
17       that they would receive e-mails from CPD and  
18       invite them to come in.

19               Are there any questions?

20               DR. POLAND: Let me start with one.  
21       What kind of both positive and negative feedback  
22       have you gotten about the Cadet Counseling Unit?

1                   CDT McALENEY: The new cadets very  
2 much enjoy the Counseling Unit. They like that  
3 they were there. Many new cadets, even if they  
4 didn't come to see us, appreciated the fact that  
5 they could turn around and see their counselor and  
6 get back in formation every morning or at meals.

7                   We were also there for the entirety,  
8 whereas, most -- there's two details of these. We  
9 are there full time. So, the new cadets, for them  
10 it's very beneficial. I think for the chain of  
11 command it was a harder time because the chain of  
12 command, it had a little bit of confidentiality.  
13 They constantly wanted to know who was going to  
14 see you, why they're coming to see you. They  
15 wanted to know anybody who was possibly thinking  
16 about resigning. And that's information we  
17 couldn't give out, and we had to tactfully tell  
18 them the new cadet is safe, we cannot give you  
19 this information. I think that the chain of  
20 command members had the most push back, but for  
21 the new cadets that was very beneficial.

22                   DR. WIENER-LEVY: One of the things we

1 hear over the course of the academic year when  
2 cadets come in to see us, they said I never would  
3 have seen it if not for my counselor. They felt  
4 like everybody was screaming at them, everybody  
5 was criticizing them, everybody was telling them  
6 they were doing everything wrong, and then there  
7 was this person who was just sitting there  
8 listening.

9           The other feedback is we get calls from  
10 parents. We very often during CPD and even during  
11 the academic year we get calls from parents who  
12 are concerned about their eighteen-year-old. We  
13 very often funnel that information to the cadet  
14 counselor for that company, and we're very frank.  
15 I mean, we tell the parents we're going to let  
16 your son or daughter know you called us, but we'll  
17 make sure that somebody gets to speak with them,  
18 and the parents are assured by the fact there's  
19 somebody even better there in the company and  
20 there's somebody that they're speaking to, let's  
21 say if they're resigning, never mind any other  
22 kinds of issues.

1                   DR. POLAND: It's an interesting idea to  
2 have the cadet peer counselors. I may be wrong,  
3 but I don't think the other academies have that.  
4 Do you know? Has there been any attempt to sort  
5 of structure lessons back and forth between the  
6 academies?

7                   DR. WIENER-LEVY: I don't believe they  
8 have it during the summer. I believe it's the  
9 Navy that have peer counselors that operate in a  
10 different capacity during the academic year that  
11 we don't have them.

12                   DR. POLAND: It might be an opportunity  
13 to, you know, develop some sort of forum where the  
14 four academies could meet and talk.

15                   DR. WIENER-LEVY: I actually attended in  
16 June a meeting on sexual assault with three  
17 academies. And, absolutely, it was incredibly  
18 beneficial to hear about what people are doing,  
19 what the three academies were doing. We did not  
20 get anybody from the Coast Guard, although,  
21 interestingly, one of our former psychologists is  
22 now working as a civilian at the Coast Guard. So,

1 hopefully, they can be brought into the loop.

2 DR. POLAND: Any further comments?

3 DR. SHAMOO: As a psychologist with  
4 experience with the cadet, do you see the  
5 treatment during the four years appropriate and  
6 helpful for the growth and development in the  
7 performance of their job afterwards, as a  
8 psychologist, and have they sought your views on  
9 how one can improve their treatment in order to  
10 reduce the unnecessary stress, if there is any  
11 unnecessary stress?

12 DR. WIENER-LEVY: I think for some  
13 cadets coming to see us is very beneficial and  
14 gets them through some very rough patches. I  
15 think they also, of course, at the time they're  
16 going from eighteen to twenty-two, they're  
17 transitioning from late adolescence, and you'll  
18 see them blossom into young adults. And, again,  
19 there are the normal challenges that you see a  
20 tremendous amount of growth, and, hopefully, they  
21 already -- or those that are struggling,  
22 especially are ready to take that leap when they

1 graduate.

2 DR. SHAMOO: My question is about the  
3 way the training and their treatment by the school  
4 masters.

5 DR. WIENER-LEVY: Oh.

6 DR. SHAMOO: Is that the most  
7 appropriate way for the eventual performance as to  
8 whom, officers with a big mission and whether they  
9 have ever attained information from you to  
10 contribute to a better way (inaudible).

11 DR. WIENER-LEVY: As a civilian I think  
12 it's hard for me to talk about what appropriate  
13 training is for Army officers. Sure, you know,  
14 I'm not -- probably the same way an Army officer  
15 is going to see them.

16 And I can give you an example. Somebody  
17 we were just talking about today. One of the  
18 problems is that when cadets come to basic  
19 training they have no phone, no iPod. If they  
20 want to go out for a run because they're feeling  
21 stressed, they can't do that because they're a  
22 hundred percent accountable. That's just three

1 examples to start.

2           Those are the coping mechanisms that you  
3 see nineteen and twenty-year-olds use today. I  
4 didn't have a cell phone at eighteen. I didn't  
5 have an iPod at eighteen, but that's what kids  
6 have today.

7           So, whether you tell somebody during  
8 CPD, for example, you can't have your iPhone, you  
9 can't go for a run, you can't have your iPod, that  
10 does make you more stressful.

11           DR. PARKINSON: First of all, I want to  
12 commend you because language is extremely  
13 important, as you know. Icons are very important  
14 for visual or cognitive.

15           So, when you call your entity the Center  
16 for Personal Development and then back it up with  
17 programs and activities and say it's not just  
18 putting lipstick on a traditional package, but  
19 this is the struggle employers are having. They  
20 take this thing, it was basically stigmatizing the  
21 drug abusing, non-performer and try to get into  
22 such areas as human personal development,

1       resiliency training, because they don't put the  
2       resources into making the old model or the new  
3       model.

4                So, I think you're to be commended for  
5       the name, for the approach to give people  
6       awareness from the first days that they're here  
7       through the peer mentor counselor who is  
8       (inaudible). I'm senior to you and I'm going to  
9       be looking at first to the peers a little bit  
10      higher, because there's a lot higher ones. That's  
11      wonderful.

12              The question I've got for you though,  
13      which is the next level that I know we, the  
14      employer, are looking at, is if we take the label  
15      Center for Personal Development seriously and we  
16      say that wellness is not fitness and absence of  
17      disease is not performance, are there actual  
18      programs that you could think to develop that  
19      really say become your best self at the Center for  
20      Personal Development? You don't have to have an  
21      issue for development to be here. Would you like  
22      to bounce back quicker from anything in your life?

1       Would you like to perform emotionally,  
2       spiritually, mentally? Just the way the  
3       Superintendent said this morning, everybody is in  
4       a sport. Everything is possible. I'd like your  
5       thinking along those lines. And if you ever did  
6       do that, you would be a national gem.

7                 Employers, I can name five or three -- I  
8       can name five of that treatment, know it, are trying  
9       to define for executive rank and file employees  
10      what is resilience training, look like that's not  
11      stigmatizing (inaudible), and you talked a lot  
12      about it here.

13                Any thoughts on that? And again, please  
14      get your story out because you've got good things  
15      to say.

16                DR. WIENER-LEVY: A couple years ago we  
17      issued a program called "My Style of Eating For  
18      Active People." It was really for people who want  
19      to eat healthier, wanted to be more fit. There  
20      didn't have to be any psychopathology.

21                Again, the demand petered out. But in  
22      my experience, some six years that I've been here,

1 is that there are just certain things that  
2 evidence, depending on who's here, whether it's  
3 the things people are struggling with. When I  
4 first got here, I saw a lot more eating issues than  
5 I've seen in the last couple of years. But we've  
6 seen more depression.

7 So, I think there's an ebb and flow. If  
8 there's demand for the Relief Program, we would  
9 certainly be very happy to reinitiate it.

10 West Point initiated a Tobacco Cessation  
11 Program, not just tobacco cessation last year. We  
12 actually tried two years ago, but it didn't catch  
13 on because one of the components was Group, and  
14 one of the things is we were about cadets. Cadets  
15 don't like Groups, because Groups mean that  
16 somebody knows you're coming to see CPD.

17 So, we revamped the program which  
18 enabled people to come and get medications  
19 because, you know, you also have the counselor,  
20 and with that we will continue to do.

21 DR. POLAND: Thank you very much.  
22 Appreciate what you do.

1 DR. LEDNAR: Our next speaker is Dr.  
2 Gregory Poland, Co-Vice President of the Board and  
3 Chair of the Infectious Disease Control  
4 Subcommittee, as well as its Vaccine Safety and  
5 Effectiveness Working Group.

6 On behalf of the Infectious Disease  
7 Control Subcommittee, Dr. Poland will be  
8 presenting two recommendations memoranda for vote.  
9 So, let's listen attentively because there are  
10 items coming for vote by the Core Board on the  
11 topics of the DoD smallpox and anthrax  
12 immunization policies and the inclusion of  
13 measles/mump/rubella vaccine under the Navy  
14 Accessions Screening and Immunization Program.

15 Those are the two areas we're voting on.  
16 Dr. Poland's materials can be found in the binder  
17 under TAB 6.

18 DR. POLAND: A lot of background to what  
19 I'm going to present. Most of all you heard at  
20 the meeting at the NDU, there's some of it the  
21 whole Board didn't hear because it was more an  
22 Infectious Disease Subcommittee function, but

1       you'll go over that.

2                   Members of our Subcommittee are as  
3 listed there. Some of them couldn't be with us  
4 today, but I invite those members that are here at  
5 the conclusion of my presentation to add anything  
6 they think that I've left out or misstated.

7                   We had an early June meeting in terms of  
8 recent activities of the IDC Subcommittee.

9 Colonel Hachey reviewed for us how DoD did, sort of  
10 lessons learned with the H1N1 pandemic. We  
11 received a question about MMR immunization in the  
12 Navy Accessions Screening and Immunization Program  
13 (ASIP) and then talked about with Colonel Krukar  
14 in the MILVAX the DoD Immunization Programs for  
15 Smallpox and Anthrax.

16                   We also had a 14 July meeting. We  
17 looked at the, or talked about the Blood Look Back  
18 Program. There will be more coming at a later  
19 time in regards to that.

20                   Looked at results of some vaccine safety  
21 and effectiveness studies for both the ACAM2000  
22 smallpox vaccine and AVA. We'll talk about the

1 MMR vaccine question in a minute, in addition to  
2 the Special Immunization Program headquartered at  
3 USAMRIID.

4 In terms of the 2009 H1N1 summary, our  
5 feeling as a Committee was that the DoD outbreak  
6 response elements, including surveillance,  
7 detection, communication, and prevention efforts  
8 were really handled in an exemplary manner.

9 A lot of thought, a lot of effort, and a  
10 lot of resources went into this, but it was just  
11 handled, I think, beautifully all the way up and  
12 down the line there.

13 This was evidenced I think by DoD's  
14 involvement and state allocation programs, vaccine  
15 distribution and immunization rates, safety  
16 monitoring activities.

17 Ninety percent of the Active Duty Force  
18 was vaccinated for H1N1. Ninety percent of Active  
19 Duty Force vaccinated against seasonal influenza.  
20 And, also we talked about the success of some of  
21 the DoD communication initiatives, particularly  
22 the DoD Pandemic Influenza Watchboard.

1           A number of us got regular, sometimes  
2           daily updates by e-mail on this and the MILVAX  
3           Flash Info System.

4           So, really, you know, I was thinking  
5           about this, and I hope that there's some way to  
6           preserve this institutional memory the next time a  
7           pandemic comes or the next time we have to gear up  
8           for something quite as big as this was.

9           Some of the lessons learned were that  
10          risk communication is a top priority. More  
11          accurate definition of Service Member is necessary  
12          for prioritization. Greater emphasis should be  
13          placed on preventive medicine and preparedness  
14          exercises. Not that those weren't done, but  
15          especially as you get away out from the larger  
16          commands it was harder to assess those, and the  
17          need which we talked about before for a universal,  
18          standardized immunization tracking system that  
19          truly cuts across all the Services.

20          In terms of smallpox and anthrax  
21          immunizations policies, we did a pretty deep dive  
22          into this, had a couple of meetings on it, had

1 outside experts come in and brief us, et cetera.

2 We looked at issues pertaining to  
3 adverse events related to those vaccines, the  
4 capacity for early detection should an infection  
5 occur, the current prophylaxis policies, the  
6 availability of alternative countermeasures other  
7 than vaccines, threat evaluation, and the  
8 continued need for the policies that we currently  
9 have.

10 So, let me get right to our proposed  
11 recommendation. I should say that we had the  
12 opportunity to talk to people from Admiral Smith's  
13 office and others around DoD as well as some of  
14 the intelligence communities. Our recommendation  
15 is to suspend the current DoD smallpox routine  
16 immunization program absent a new need or credible  
17 threat.

18 There's a substantial burden associated  
19 with vaccination. This would avert unnecessary  
20 costs in administering unwarranted vaccines. That  
21 is to say, we would not prevent a single case of  
22 terrorist-induced smallpox, but we have side

1 effects which are inevitable with the use of the  
2 current vaccines.

3           Minimizes the need for multiple vaccines  
4 administered on a routine basis. As I say, it's  
5 hard to enumerate a benefit, at least a  
6 quantifiable measurable benefit because no cases  
7 have actually been prevented, and, yet, many AE's  
8 induced.

9           There are alternative treatments  
10 available. There's vaccinia immune globulin (VIG)  
11 available, and at least two antivirals, one  
12 licensed and one an investigational drug.

13           However, we also recognize that there  
14 may be some special circumstances that exist where  
15 smallpox vaccine would be appropriate and  
16 necessary and should continue, and we leave that  
17 to DoD to decide who that would be, but it might  
18 be, for example, certain Special Operations troops  
19 and others.

20           We recommended configuration of  
21 antiviral and vaccine stock piles to a "ready  
22 level."

1           For those of you that might not be aware  
2 of this, should there be a case of smallpox, as  
3 long as we got VIG or smallpox vaccine to them  
4 within three days, we can prevent the mortality  
5 associated with smallpox and reduce the morbidity.  
6 So, it would be important if we suspend this  
7 routine immunization to have these countermeasures  
8 available so that within that seventy-two hour  
9 time frame we can move these materials, and we've  
10 been assured that that's possible.

11           We also thought it would be appropriate  
12 to extend the safety surveillance window beyond  
13 the current FDA requirement of five years for  
14 follow-up of ACAM2000 recipients who had specific  
15 vaccine-related adverse events. The particular  
16 one that we focused on is there is a small  
17 incidence of myocarditis associated with this  
18 vaccine.

19           By the way, actually defined by and  
20 published by DoD in JAMA when this program was  
21 spun back up in 2001 or 2002, and there is concern  
22 about the rare individual who doesn't

1 spontaneously recover from this side effect and  
2 who could go on to experience more chronic cardiac  
3 symptoms.

4 Let me ask first if there are any  
5 questions about smallpox before we go onto  
6 anthrax?

7 DR. FOGELMAN: Two questions. So, what  
8 is the longevity of this vaccine, the shelf life  
9 on it is one. And the second, what is the  
10 incidence of myocarditis or the known cases?

11 DR. POLAND: Yeah. It's a little hard  
12 to answer that question because we have moved  
13 pretty rapidly from Dryvax to ACAM to advanced  
14 ACAM vaccines. So, you know, the study sort of  
15 start -- they're rare enough that they're hard to  
16 find. I can tell you there have been some two  
17 hundred and fifty cases identified. That doesn't  
18 mean they were symptomatic, but identified out of  
19 several million doses administered. So, it's an  
20 uncommon event.

21 The shelf life. Up until mid 2000's we  
22 -- like DoD, like everybody else is using Dryvax,

1       which was last manufactured in late '76, the late  
2       '70's, and I think maybe up until early '80's, but  
3       the shelf life is very long because it's a dry  
4       live vaccine and reconstituted at the time needed.

5                Okay. Let me go onto anthrax then. We  
6       felt that the current anthrax immunization policy  
7       at the current time should not be changed. There  
8       was evidence that anthrax is a continuing and  
9       credible threat. The agent is not difficult to  
10      acquire or engineer for biowarfare capability  
11      depending on scale. CDC has not reported any  
12      linkage of AVA to increased risk of  
13      life-threatening or permanently disabling adverse  
14      events in the short- or long-term.

15               I mention this because they just, CDC  
16      just finished -- our item happened to be one of  
17      the sites, the largest study of the safety  
18      immunogenicity of ADA that has been done, so  
19      people were followed over an almost five-year time  
20      period. AVA is known to be effective against  
21      anthrax. We did recommend continuing the current  
22      safety monitoring and reporting of AVA associated

1 adverse events through MILVAX, et cetera.

2 Any questions about anthrax? Okay. We  
3 also looked at a review of MMR vaccine inclusion  
4 under the Navy ASIP Immunization Program. The  
5 particular issue revolved around mumps.

6 For those of you that may not be aware,  
7 there are large scale outbreaks of mumps that are  
8 occurring actually in New York state and a few  
9 other places. This seems to have occurred despite  
10 receipt of two doses of MMR and in about half or  
11 more of the cases.

12 So, we looked at the incidence of mumps  
13 among Active Duty members and looked back to 2000.  
14 We had serological data indicating levels of  
15 immunity to measles and rubella among Armed Forces  
16 recruits. The percent of Navy accessions that  
17 were getting MMR vaccines.

18 So, they are tested now, and if they are  
19 not immunized, which saves a lot of vaccine and a  
20 lot of money because the serology is relatively  
21 inexpensive to do compared to the vaccine.

22 We looked at projected cost-savings if

1       only MMR screening were to be conducted and the  
2       cost per dose and then side effects and adverse  
3       effects.

4               We looked at three potential courses of  
5       action. One was to continue the current Navy  
6       Program. The second was to drop MMR vaccine from  
7       that program and resume mandatory universal MMR  
8       vaccination at the time of accession, and the  
9       third was to continue the Navy ASIP at recruit  
10      training centers with monitoring of mumps case  
11      incidence within the Services and broader  
12      communities within which they're imbedded, and then  
13      reinstitute mandatory universal MMR vaccination  
14      for recruits if mumps outbreaks occur either in  
15      the recruit training sites or mumps incidence  
16      increases.

17             So, our recommendation was that the Navy  
18      should continue their current practice followed  
19      under their current program, which is  
20      administering MMR vaccine to eligible recruits if  
21      they are seriously negative on serologic  
22      screening.

1           Vaccine recipients are recruits who are  
2 non-immune to measles and rubella; present  
3 immunization rates, that is those who are not  
4 immune, is about 15 to 20 percent of an estimated  
5 40,000 Navy accessions per year.

6           Unwarranted vaccinations would be  
7 averted.

8           There would be significant resource and  
9 cost-savings to doing that. The cost of screening  
10 is, by the way, about \$5. The cost of the vaccine  
11 is as much as \$60. So, you know, if you can go  
12 from 100 percent immunization rates to 15 or 20  
13 percent immunization rates and not the 80 percent  
14 that don't need it and aren't going to benefit  
15 from it, it's a very large cost savings.

16           Nonetheless, we felt close surveillance  
17 should continue to be maintained, given that we  
18 don't really understand why mumps outbreaks are  
19 occurring in this age group in civilian settings,  
20 and that any increase in mumps case incidence or  
21 changes in the epidemiology should be reported and  
22 might cause us to review these recommendations.

1                   Any questions about that?

2                   DR. OXMAN: The total cost, including  
3 blood drawing, et cetera, the serology, even  
4 though it seems low and the cost of the  
5 vaccination to me at least seems high. I wonder  
6 if those are the original figures.

7                   DR. POLAND: We confirmed the cost of  
8 the vaccine, so those are accurate numbers and the  
9 -- you're right in that the cost to do the mumps  
10 assay is five bucks. There are costs associated  
11 with gathering the blood to do that assay, but all  
12 those costs are incurred anyway because blood is  
13 drawn for a variety of other reasons. So, we, in  
14 essence, don't count those costs for this  
15 particular question.

16                   DR. LUDWIG: Are the recipients of the  
17 vaccine after screening, are those retested again  
18 to look for perpetual nonresponders?

19                   DR. POLAND: They are not.

20                   DR. LUDWIG: They're not?

21                   DR. POLAND: If you have a question  
22 about that we can talk. My laboratory does work

1 on that very question.

2 The SIP was established to confer added  
3 protection to laboratory personnel who are engaged  
4 in research on countermeasures for select agents.

5 Those compose somewhat over 600  
6 volunteers. About 60 percent are from USAMRIID  
7 working directly there. About 40 percent from  
8 other DoD, federal, and non-government entities  
9 that are doing this work.

10 Licensed vaccines, that is, FDA-approved  
11 are required under SIP but investigational new  
12 drug (IND) vaccines are used for both research and  
13 immunizing laboratory personnel.

14 Many of these are legacy vaccines  
15 developed by the Salk Institute from the '60's up  
16 until about the '90's. So, we have a similar  
17 issue with regards to shelf life and the ongoing  
18 provision of some of these vaccines.

19 Major issues that affect the  
20 sustainability of the SIP include policy,  
21 availability, and ethical use considerations.

22 We were asked in the terms of reference

1 are as follows:

2 To determine whether the SIP still  
3 serves an important role in the context of  
4 USAMRIID's overall Biosafety and Occupational  
5 Health Program, particularly given the more modern  
6 advent of personal protective equipment (PPE) and  
7 other engineering controls that weren't present in  
8 the '60's and '70's when these programs were first  
9 started.

10 We were asked to define the appropriate  
11 role of vaccination in protecting against  
12 laboratory-acquired infections.

13 Determination regarding who should be  
14 vaccinated, if vaccinations still played an  
15 important role.

16 Determine the ethical issues associated  
17 with the SIP, if any, and how to address them.

18 Assess the value of the legacy IND  
19 vaccines for DoD and determine whether they should  
20 be maintained, particularly in regard to assuring  
21 future availability of any legacy vaccine that was  
22 found to be valuable for preventing

1 laboratory-acquired exposures and/or Force health  
2 protection.

3 So, we looked at a list of the licensed  
4 IND vaccines that are administered.

5 We looked at the benefits and risks of  
6 those IND vaccines, and to whom they're  
7 administered.

8 Looked at program funding source and  
9 costs for sustainment.

10 Looked at the appropriateness of and  
11 compliance with existing biosafety precautions and  
12 practices, particularly for personnel who refuse  
13 (required) licensed vaccines or (voluntary) IND  
14 vaccines.

15 And then, of course, the fact that there  
16 are Personal Protective Equipment (PPE) and  
17 availability of alternative safety measures, such  
18 as different engineering control measures.

19 We also looked at vaccine immunological  
20 potency evaluations, manufacture and lot release  
21 dates and remaining supply, and sort of tried to  
22 project that at the current rate of use vaccine

1 storage, vial labeling and integrity of vials and  
2 vial stoppers, which is an issue which some of  
3 these were filled thirty or so years ago.

4 Safety and immunogenicity data and data  
5 on vaccine local and systemic side effects. How  
6 often are there actual laboratory accidents or  
7 exposures that occur?

8 Continuation and need of the SIP in the  
9 context of the USAMRIID's overall Biosafety and  
10 Occupational Safety Health Program.

11 During this course of events, and as we  
12 were evaluating this one of the things that became  
13 apparent to us is that the National Academy of  
14 Science had initiated a study of these very  
15 issues pertaining to the USAMRIID and SIP program,  
16 which is the, I guess, it was initiated in March  
17 of 2010.

18 You can see -- I won't read all of that,  
19 but you can see what they were expecting to do  
20 that. That report is expected within nine to  
21 twelve months of that March start date.

22 And, so, our recommendation was that we

1       delay comment at the current time on the SIP  
2       program until we see the NAS report and then we  
3       will comment on and/or address any residual highly  
4       focused questions relating to the specific areas  
5       where we have some expertise.

6               So, comments or questions?  Mike?

7               DR. PARKINSON:  That last discussion of  
8       the National Academy of Science, my knowledge is  
9       they don't just say let's talk, take a look at  
10       USAMRIID.

11               Who requested the study or the funding  
12       through the NAS that they would go looking at  
13       this?  What's the background of the NAS study that  
14       you were able to ascertain?

15               DR. POLAND:  Let me see if I can  
16       remember that.  Does anybody know off the top of  
17       their head?

18               DR. LUDWIG:  I think it was DoD  
19       initiated -- no, actually it's NAS initiated out  
20       of HAS, and there's some history to this.

21               In fact, after 2001 there was a working  
22       group.  The White House called it a working group,

1 called a medical, uh, working group -- I can't  
2 remember exactly what it was. But one component  
3 of that working group was the Special Immunization  
4 Program. That particular organization came up  
5 with a series of recommendations at that time that  
6 involved the expansion of the SIP Program to be  
7 more widely distributed to make access to the  
8 other centers that were being stood up that were  
9 doing biodefense research as a result of expanded  
10 expenditures in the civilian sector.

11 The problem was that NAS said they  
12 didn't want to spend the money to make that  
13 happen, and so nothing actually became of that.

14 So, this is actually a follow-up to that  
15 work that happened probably in 2002-2003 time  
16 frame to reassess whether or not such expansion  
17 was important.

18 And I just wanted to follow on. I think  
19 the differences between the NAS study and the  
20 study that USAMRIID had requested are pretty  
21 significantly different. The concerns of the NAS  
22 study really revolve not only around whether or

1 not we need to really maintain a program, but  
2 whether or not we should expand it and how that  
3 should be done.

4 DR. POLAND: Our intent is to use that  
5 work to then, as a basis to inform our own, so  
6 that's why I say it's a delayed comment.

7 DR. LUDWIG: Okay. I think and if the  
8 best way to move, that's up to us. I think one of  
9 the things we had hoped for was an independent  
10 assessment based on a wide variety of information  
11 that the National Academy Study was not looking  
12 at, and I'm a little concerned about the outputs  
13 of the National Academy Study prejudicing in some  
14 way the response for the Defense Health Board.

15 So, I mean, the best way you decide to  
16 go, that's the way you decide to go.

17 DR. POLAND: I'm not sure why that  
18 concern, but I don't think that should be a big  
19 issue.

20 DR. LUDWIG: Okay.

21 DR. PARKINSON: It's very helpful, just  
22 like a line that there's a rationale behind the

1 request. Typically, it's generated by concerns.  
2 I'm sure that your Subcommittee will take those  
3 all into account. It's interesting. Thank you.

4 DR. POLAND: Mike Oxman.

5 DR. OXMAN: Just for people who were  
6 ruminating in the interval between our  
7 considerations and when that study comes out, I'd  
8 just like to make two comments.

9 One, is the physical containment issues,  
10 that the usual equipment is vastly overrated and  
11 can often give a false sense of security.  
12 Eighty-eight feet is three miles an hour and the  
13 biosafety cabinets are tested under totally  
14 unrealistic conditions with no destruction of the  
15 air flow, and even then it's a reduction of about  
16 a thousand in spore counts, which makes, you know,  
17 some difference, but not much.

18 But more importantly is the next line,  
19 the "Appropriateness of and compliance with  
20 existing biosafety precautions and practices,  
21 particularly for personnel who refuse (required)  
22 licensed vaccines or (voluntary)".

1           I think anyone who refuses a licensed  
2 vaccine should simply not be allowed to work with  
3 that agent. And again, I think we need to think  
4 about that in the interval between now and when  
5 the report comes out.

6           DR. POLAND: Let me take you through it  
7 so we can vote on each of those.

8           So, here is your Subcommittee's  
9 recommendation on the smallpox immunization  
10 policy.

11           We have a motion to --

12           DR. SHAMOO: You don't need a first and  
13 second. It's a Committee report.

14           DR. POLAND: All those in favor of the  
15 Committee's smallpox immunization policy?

16           Thank you. Any opposed? Any  
17 abstentions? All right. It is uniformly  
18 accepted. The second one is that we recommend the  
19 current anthrax immunization policy should not be  
20 changed and that we continue safety monitoring and  
21 reporting of any associated vaccine.

22           DR. LEDNAR: All those in favor of the

1 Subcommittee's recommendation, raise your hand.

2 Thank you. Any opposed? Any  
3 abstentions? Thank you. It's accepted.

4 DR. POLAND: The third one was in  
5 regards to MMR vaccine and the Navy Accession  
6 Program.

7 We recommended that they continue their  
8 current practice following serologic screening and  
9 call for close surveillance given what's happened  
10 in the civilian side.

11 DR. LEDNAR: Those in favor of the  
12 Subcommittee's recommendation?

13 Thank you. Any opposed? Any  
14 abstentions? It is accepted.

15 DR. POLAND: And then the last one was  
16 not so much a vote, but our recommendation that  
17 the Infectious Disease Subcommittee sort of pause  
18 pending the NAS report and then we'll learn from  
19 that.

20 DR. LEDNAR: So, the Subcommittee is not  
21 bringing forward a request to the Board to vote.

22 I see this as an informed --

1 DR. POLAND: To let you know what we're  
2 doing.

3 DR. LEDNAR: Okay. Any other comments  
4 for the Subcommittee?

5 I think for all of us on the Board,  
6 Greg, thanks to you and the Subcommittee. It's  
7 been a very busy time in the era of infectious  
8 disease.

9 DR. POLAND: We're very glad to have  
10 passed H1N1.

11 Okay. The next speaker is Dr. Craig  
12 Postlewaite. Dr. Postlewaite is the Director for  
13 Force Readiness and Health Assurance in the Office  
14 of the Deputy Assistant Secretary of Defense for  
15 Force Health Protection and Readiness.

16 In his role, he writes deployment health  
17 policies, develops programs, provides oversight, and  
18 advocates for medical research supporting deployed  
19 occupational and environmental health. Specific  
20 programs under his purview include Individual  
21 Medical Readiness, Human Performance Optimization,  
22 Global Medical Surveillance, and Deployment

1 Occupational and Environmental Health  
2 Surveillance, which all focus on sustaining the  
3 health and improving the performance of Service  
4 members and DoD civilians.

5 Dr. Postlewaite is a retired Air Force  
6 colonel and served as a professor in the  
7 Department of Biology at USAFA.

8 He's presenting two potential questions  
9 for consideration and examination by the Board on  
10 the topics of theater air monitoring plan and the  
11 Armed Forces Health Surveillance Center Burn Pit  
12 Assessment Report.

13 His presentation slides may be found at  
14 TAB 7, I believe.

15 DR. POSTLEWAITE: Thank you very much.  
16 Members of the Board, it's my pleasure to be here  
17 this afternoon.

18 My slides that I'm going to show you  
19 this afternoon are slightly different from what  
20 you will find in your notebooks. I apologize for  
21 the late substitution, but Ms. Bader will get  
22 those out to you.

1           I'd like to first thank the DHB, in  
2           particular the Occupational Environmental  
3           Subcommittee, Dr. Halperin and his team for the  
4           work they've done for us in the past relating to  
5           the burn pit risk assessment and currently a  
6           review. We certainly appreciate your interest and  
7           your offer to remain engaged. That's why I'm back  
8           here to speak with you.

9           We'll be presenting questions involving  
10          two different documents for your consideration.  
11          One is the recent epidemiologic assessment report  
12          on burn pits, smoke exposure in theater, and we'll  
13          also be presenting a draft document for additional  
14          air sampling in theater to help answer some  
15          concerns.

16          As some of you well know we've had a lot  
17          of media attention, a lot of Congressional  
18          attention, a lot of attention by veterans related  
19          to this issue. It's very much a Force sustainment  
20          issue.

21          The DoD acknowledges that smoke from  
22          burn pits causes acute effects. There's no

1 question there at all. They tend to be mild.  
2 They tend not to interfere with mission  
3 accomplishment, but they do present a quality of  
4 life issue and they aren't pleasant, to say the  
5 least.

6 In the engineering community within the  
7 Department of Defense in particular, the U.S.  
8 Central Command, it is doing much to communicate  
9 in the theater. Essentially, all burn pits in  
10 Iraq have been closed by December 31st. A lot  
11 of the incinerators have been installed and are  
12 operational there now, and there's also an  
13 incinerator plan for Afghanistan in place.

14 In addition, there have been policies  
15 implemented to control what is burned in those  
16 burn pits to a much greater extent than occurred  
17 earlier in the conflict. A lot of the hazardous  
18 material we now know are no longer included in  
19 what might have been burnt back in 2003. 2004 is  
20 certainly in question, but there are no records  
21 kept on waste strains at that point in time.

22 We've tried to fill very diligently a

1 number of gaps related to occupational and  
2 environmental health surveillance since the '91  
3 Gulf War. We feel like we've made great strides.

4 For example, over 17,000 air, water, and  
5 soil samples have been taken in the theater of  
6 operations. As part of our Risk Management Program  
7 to identify hazardous exposures and to mitigate  
8 them we have, in addition, implemented a system of  
9 a one state location tracking for people that were  
10 deployed during the '91 Gulf War. As some of you  
11 recall, we don't know who was located where.

12 Now we have a database. It's not a  
13 hundred percent, but we can certainly create  
14 cohorts and study them, which we did not have the  
15 capability to do after the '91 Gulf War.

16 We also had health assessments where we  
17 can evaluate self-reported exposures as well as  
18 health outcome data.

19 We have the Millennium Cohort Study,  
20 which was identified earlier today, that has  
21 provided a very valuable component for us in terms  
22 of looking at the longitudinal health of our

1 personnel.

2           The problem is that even though we've  
3 done all of these things, we still can't answer  
4 all of the questions, and a lot of it boils down  
5 to the fact that we don't have good individual  
6 exposure assessment data. Very, very difficult to  
7 get in the deployed setting, as you can well  
8 imagine, with the logistics and constraints going  
9 under extreme temperatures, dusty conditions,  
10 power related issues, not to mention just the  
11 difficulty getting additional preventive medicine  
12 people.

13           We're going to ask you some very pointed  
14 questions on whether it would be valued for us to  
15 continue to sample the air related to the burn  
16 pit locations.

17           After that introduction I'm going to  
18 briefly cover the background and timeline and then  
19 I'll talk about the two documents and we'll go  
20 into the individual questions.

21           These are the two documents that are  
22 referred to, the Armed Forces Health Surveillance

1 Report was issued May 25th of 2010. It's a series  
2 of epidemiologic studies.

3 Dr. Smith from the NHRC in San Diego  
4 contributed heavily to this. And, again, he  
5 collaborated and in a very fine fashion with the  
6 Armed Forces Health Surveillance Center.

7 I'm going to go through this pretty  
8 rapidly. It's more of a benefit for the  
9 Occupational Environmental Health Subcommittee as  
10 they put all these pieces together in terms of the  
11 timelines and the issues surrounding what we've  
12 done in theater to date.

13 Most of our efforts in theater to date  
14 have involved one burn pit, Joint Base Balad  
15 (JBB). It was the largest burn pit in Iraq. It  
16 was located just north of Baghdad. I went over  
17 and looked at it firsthand myself two summers ago.  
18 At that point in time it was winding down, but it  
19 was easy to get people at that location because of  
20 the size of the base because there were no Force  
21 protection concerns. Specifically, power issues  
22 were not a problem.

1           Very much a problem in forward operating  
2 bases throughout the theater, which was  
3 mentioned earlier today, military unique issues  
4 and contingencies really have to be taken into  
5 account to a very great degree when making  
6 recommendations on what might be feasible or not.

7           But the sampling first began at Joint  
8 Base Balad back in 2005-2006. An environmental  
9 health site assessment was accomplished and the  
10 burn pit was identified as a problem back then.

11           There was air samples taken in the  
12 January to April time period which formed the  
13 basis for the screening Health Risk Assessment  
14 (HRA) that you all previously reviewed, and there  
15 you can see that more air samples were taken which  
16 resulted in another report in the interim.  
17 Incinerators were being put into place.

18           In June of 2008 the Defense Health Board  
19 provided a report on the results of their review  
20 of the Screening Risk Assessments, which basically  
21 did not identify long-term health risks, and as of  
22 right now the burn pit in Balad has been closed.

1 There's actually four incinerators in place.

2           There's been some addendums issued  
3 related to the Health Risk Assessment. The first  
4 addendum basically responds back to the Health  
5 Board's recommendations. Those additional hundred  
6 seventy air samples that I mentioned a second ago  
7 formed another addendum, and we've continued to  
8 take more samples at that location even though at  
9 this point in time the burn pit is closed. There  
10 are now four incinerators operating and provides  
11 us a perspective on how the air may have changed  
12 from the time where we had a full blown burn pit  
13 in operation to the time that we no longer do.

14           In 2009 the GAO began an investigation  
15 of burn pit smoke exposures. And, also, since  
16 that time we've had numerous media reports  
17 involving veterans that allege health effects as a  
18 result of burn pits. It's gotten a lot of  
19 Congressional interest, as you can imagine.

20           Let me do the next one here. Some  
21 Service members have actually been diagnosed with  
22 various kind of respiratory conditions that

1 providers feel are due to an inhalational cause  
2 while in theater. Unable to link them  
3 specifically with any burn pit.

4 Now, we acknowledge and have  
5 acknowledged since about April 2009 that it's  
6 medically plausible that some individuals have  
7 been adversely affected by the smoke, and that's  
8 been our message for quite sometime, but this  
9 continues to fester, continues to draw attention.

10 There's now an additional investigation  
11 by the House Oversight and Governmental Review  
12 Committee that's looking at this issue. And,  
13 also, as you may well know the Institute of  
14 Medicine under contract with the VA was also  
15 engaged in a study of burn pit smoke exposure.

16 So, that's a little bit of background in  
17 terms of all the pieces that are going on, and we  
18 have this report that was issued, and also, the  
19 Burn Pit Air Surveillance Plan that I think will  
20 be very useful for you to comment on.

21 First, let's talk a little bit about the  
22 Air Surveillance Plan. I know that an earlier

1 draft was sent to the Subcommittee for their  
2 review. We've got some initial comments back.  
3 Those have been incorporated into the plan.

4 In addition, the Surveillance Plan takes  
5 into account recommendations that were made by the  
6 Committee on Toxicology. We are interacting with  
7 the COT. In fact, I'm due to go down and provide  
8 a presentation to them on environmental health  
9 challenges. So, we are engaged with the COT and  
10 there are opportunities to do more of that, Dr.  
11 Halperin, as you pointed out.

12 But what we've essentially got here is a  
13 tailorable site-specific plan with a phased  
14 approach to acquire additional data for burn pit  
15 emissions.

16 The reason that this particular  
17 surveillance plan was drafted was because of  
18 concerns that were raised that air sampling we did  
19 at Joint Base Balad may not be representative for  
20 other locations in theater. And in all aspects it  
21 probably isn't, but it was the largest burn pit.  
22 We felt like, one, we get people in there without

1 too much trouble. Central Command allowed those  
2 people to go in there, so that's where we focused.

3 The sampling done at Joint Base Balad  
4 was basically for all hazards. We took air  
5 samples. If there happened to be pollutants in  
6 the air either from vehicle emissions or whatever  
7 or from a local industry, those were included in  
8 those results.

9 So, if we go to different sites, those  
10 additional pollutants are likely to be different.  
11 The other thing to remember is, as I've said  
12 earlier on, because policies have now been put  
13 into place over the last two years on what can be  
14 burned in a burn pit and what can't, by going to  
15 additional locations it raises a question about  
16 whether that would be useful or not. But the  
17 Phase 1 would be to conduct the ambient monitoring  
18 at probably up to three additional sites, probably  
19 in Afghanistan, because all the Iraqi burn pits  
20 are going to be closed by the end of December as I  
21 mentioned, and it would include continuous,  
22 twenty-four hour composite air samples for all

1 known major emissions that are listed there.

2           And then the thought is, the way the plan  
3 has been drafted is after a review of that ambient  
4 monitoring, if it's determined looking at the  
5 ambient data that we feel like our personnel at  
6 that location are at an elevated health risk, then  
7 we could follow it with Phase 2, which would be an  
8 attempt to refine the health risk provisions.

9           As you well know, ambient monitoring  
10 data does not equal individual exposure. Lots of  
11 misclassification goes on in terms of levels of  
12 exposure. Based on that kind of data we know that  
13 our locations specific data for our troops is not  
14 one hundred percent. Some of these people come  
15 onto a base camp with maybe eight or twelve hours  
16 a day they're outside the wire, so they're not  
17 actually on the base camp. We know that personnel  
18 clerks are not as diligent as we'd like them to be  
19 in terms of recording time on site, as well. So,  
20 what we end up with, and we try to combine ambient  
21 exposures with individuals who are assigned to  
22 that camp, we know that there's going to be a

1 spectrum of exposure. Some will be more highly  
2 exposed, some probably will be virtually  
3 non-exposed.

4 When you lump those together it can mask  
5 an effect, and we think maybe that's why we are  
6 not finding anything based on a population  
7 approach with our epidemiologic assessment.

8 That's what I want to talk about now.  
9 I'll go ahead and introduce that and I'll talk  
10 about specific questions related to both of those  
11 documents.

12 For nearly all health outcomes measured  
13 the incidence for those health outcomes studies  
14 among personnel assigned to locations with  
15 documented burn pits and who had returned from  
16 deployment, was either lower than, or about the  
17 same as those who had never deployed.

18 And there were a number of conditions  
19 that were studied. Respiratory diseases, acute  
20 respiratory conditions, COPD, asthma, circulatory  
21 disease, signs, symptoms and ill-defined  
22 conditions for cardiovascular disease, signs,

1 symptoms and ill-defined conditions for  
2 respiratory, sleep apnea, chronic multi-symptom  
3 illness, rheumatoid arthritis, lupus and burn  
4 outcomes.

5           So, as we say, there are a very large  
6 number of health outcomes that were studied  
7 between the Armed Forces Health Surveillance  
8 Center's contribution to the report and the  
9 Research Center's contribution to the report.  
10 There were about 18,000 personnel studied in two  
11 locations where burn pits were located by the  
12 Armed Forces Health Surveillance Center and about  
13 3,000 individuals that were assigned to burn pit  
14 locations by the Department of Health Research  
15 Center.

16           Similar findings occurred in comparison  
17 between those methods deployed near a burn pit and  
18 those methods deployed outside the area of a burn  
19 pit, with one exception. We found an adjusted  
20 odds ratio barely above 1.07 for signs, symptoms  
21 and ill-defined conditions for personnel located  
22 at Camp Arifjan in Kuwait, which is a location

1 without a burn pit. So, even when we looked at  
2 all of this we couldn't see anything at those  
3 specific locations.

4 For comparison populations we looked at  
5 personnel who were deployed to locations in  
6 theater without burn pits. We compared them to a  
7 company or of individuals who were deployed to  
8 Korea, no burn pits, but high particulate matter  
9 that blows over in the Gobi Desert, and we  
10 compared them to never deployed service members in  
11 CONUS. So, a very large group of controlled or  
12 controls, as I should say, that were used in these  
13 studies.

14 For health outcomes measured in theater,  
15 this would be for acute effects, they looked at  
16 that, as well. Air Force members at Joint Base  
17 Balad had a higher proportion of respiratory  
18 encounters, although Army Service members at other  
19 burn pit sites studied didn't see any consistent  
20 trend here at all.

21 Burn pit exposures at various times  
22 before and during pregnancy, and for differing

1 durations, were not associated with an increase in  
2 birth defects or preterm birth in infants of  
3 active duty military members.

4           But very interestingly, we think it's  
5 probably just a spurious finding, we did see an  
6 increase in defects in infants of male Service  
7 members who were deployed to a burn pit region for  
8 more than 280 days prior to the conception of  
9 their infant. There were no other dose response  
10 relationships identified. Again, the adjusted  
11 odds ratio was not high, 1.31. So, it was  
12 significant.

13           Among deployers, self-reported, newly  
14 diagnosed lupus and rheumatoid arthritis was part  
15 of the Millennium Cohort Study here where people  
16 were assessed for baseline conditions in 2003-2004  
17 with that survey instrument. And then again in  
18 2006 and '07, I believe, it was for the policy  
19 line and, of course, any conditions that they had  
20 at baseline, those people, you know, those people  
21 were not followed for that outcome.

22           We found that for newly diagnosed lupus

1 and rheumatoid arthritis they were not  
2 significantly associated with either a three- and  
3 five-mile proximity to a burn pit or to cumulative  
4 days exposed compared to those not within  
5 proximity of the three burn pits in the study.

6           However, a very interesting finding. A  
7 statistically significant elevated risk of newly  
8 reported lupus adjusted the odds ratio of 3.52 was  
9 seen for those deploys within proximity of a burn  
10 pit at Joint Base Balad but not at other  
11 locations.

12           And when the Deployment Health Clinical  
13 or Research Center followed up to confirm those  
14 cases of lupus, the adjusted odds ratio for  
15 confirmed cases became non-significant. So, the  
16 numbers were small. But, you know, what does this  
17 mean? We're not really sure.

18           As many of you know from an  
19 epidemiological standpoint the more analyses you  
20 conduct, the greater the chances that you're going  
21 to find spurious findings. All of the conditions  
22 that we studied were chosen either because the

1 literature linked those with issues related to  
2 combustion exposures or there were issues during  
3 the '91 Gulf War or they were issues related to  
4 Congressional interests or media interest and  
5 that's how we arrived at that list of various  
6 conditions that we would look at.

7           So, in terms of the questions, we'd very  
8 much like the Defense Health Board to review our  
9 epidemiologic study. It has not yet been released  
10 to the public.

11           We had anticipated having a press event  
12 to release it. Some of our senior leaders are a  
13 little nervous about that. They are very  
14 interested in getting the review from this  
15 esteemed body, but it looks like we're not going  
16 to be able to wait until mid-November for when you  
17 all told us the result would probably come back.  
18 This report needs to get to the Institute of  
19 Medicine for consideration in their study. The  
20 GAO wants it and should have it, as well as the  
21 House Oversight and Governmental Review Committee.  
22 So, it may be released to those committees, to

1 those agencies in the near future as preliminary  
2 findings, with the knowledge that a peer review  
3 will be forthcoming.

4           So, Question Number 1, based on the data  
5 available for the conduct of the individual  
6 epidemiologic studies, were the methods used, the  
7 analyses conducted and the interpretation of the  
8 results appropriate?

9           Question 2, are there additional studies  
10 or modifications to the completed studies that the  
11 Board recommends to further determine whether  
12 there may be long-term health effects associated  
13 with inhalation/exposure of/to burn pit smoke?

14           In addition, two other questions that I  
15 would I ask that the Board consider. How often  
16 should we repeat these studies?

17           We know that results show what I've  
18 described to you at this time. What are they  
19 going to show four years from now, eight years  
20 from now or whatever. Is there a chance that we  
21 would pick up additional chronic cases in a  
22 longitudinal fashion?

1                   So, we'd like to know your  
2                   recommendation on how often these studies should  
3                   be repeated, and we'd also like the Board's  
4                   recommendation on which of the findings that I've  
5                   described to you ought to be followed up.

6                   We'd also request that the Defense  
7                   Health Board review the Air Surveillance Plan that  
8                   I described to you to support the collection of  
9                   additional air samples at up to three additional  
10                  burn pit locations.

11                  The data will be used to conduct  
12                  site-specific health risk assessment, very much  
13                  like we acknowledged to do at Balad.

14                  Again, please keep in mind that it's not  
15                  easy to perform these studies in these --  
16                  particularly, that Phase 2, which would involve  
17                  individual monitoring to refine risks.

18                  So, the questions are: is there a value  
19                  in conducting the additional ambient air sampling?  
20                  Would it tell us any more than what we can already  
21                  glean from our samples from Balad?

22                  Is there value in conducting indoor air

1 and/or personal monitoring in conjunction with  
2 ambient air monitoring?

3 Are the proposed analyses appropriate  
4 and reasonable?

5 Is a combination of continuous and  
6 time-integrated monitoring appropriate?

7 Will this approach and the resulting  
8 data set provide a useful foundation to  
9 characterize for efforts to characterize health  
10 risks?

11 How can the data best be used to support  
12 long-term health risks assessment?

13 That concludes my presentation. I'd be  
14 glad to answer any questions.

15 Yes, sir.

16 DR. KAPLAN: I have a couple questions  
17 for you.

18 First, as you think about the fact that  
19 various things were burned on various days and so  
20 forth and so on, it seems to me that it's going to  
21 be tough to try to get any kind of corrected data.  
22 You said before you don't know how long on the

1 base which way the wind was blowing, et cetera, et  
2 cetera. So, it would raise a question, and I  
3 wonder how you thought about it in terms of these  
4 long-term follow-ups.

5           The other question that I would raise  
6 just for the record is something that you're, I  
7 think, aware of, and that is there was a piece in  
8 the Washington Post on August 7th, and to quote  
9 from it, uh, it says, "The military personnel and  
10 civilian workers say they inhaled a toxic haze  
11 from the pits that cause severe illnesses. Six  
12 with leukemia have died and five others are being  
13 treated for the disease."

14           Can you tell us a little bit about what  
15 you know about that and what you don't know?

16           DR. POSTLEWAITE: Yes, Dr. Kaplan, I'd  
17 be glad to.

18           First of all, in your first question  
19 under the Air Surveillance Plan there we're asking  
20 you to review, there are requirements in there,  
21 pieces of that which essentially would involve the  
22 deployment of up to ten people to a particular

1 site that would be there to characterize the  
2 direction of the wind meteorological conditions.  
3 They would be actually monitoring what is being  
4 burnt in the burn pit. We'd keep the equipment  
5 running. We'd be able to, if we went to a Phase  
6 2, we'd be able to follow the people in terms of  
7 what their occupations are and, essentially, get  
8 much more data with an eye on target approach than  
9 we were able to achieve in Balad.

10 So, I think there can be some refinement  
11 there.

12 DR. KAPLAN: It would seem though  
13 everybody being aware of it and everybody being  
14 nervous about it, that burn pits being seemingly  
15 modified in terms of what actually is thrown in  
16 there, you'd be comparing apples and oranges.  
17 What have you thought about that?

18 DR. POSTLEWAITE: Yes, sir. That is a  
19 concern of ours and that's why we really would  
20 like your opinion on whether you think it would be  
21 valued to do this or not. We have some concerns  
22 about that, as well.

1           Let me answer your second question first,  
2 and then I can move onto the gentleman on your  
3 right.

4           You asked about the leukemia cases.

5           DR. KAPLAN: Yes.

6           DR. POSTLEWAITE: We had the Armed  
7 Forces Health Surveillance Center do an analysis,  
8 and I've got the actual numbers over there on the  
9 chair. But, essentially, they compared all of the  
10 deployers to non-deployers for leukemia cases and  
11 they found that the incidence was seven times  
12 higher than those who did not deploy versus those  
13 that did deploy.

14           In addition, there were no cases found  
15 of any of the deployers at the sites that were  
16 studied.

17           So, that's what's in the database in  
18 terms of our leukemia cases.

19           DR. KAPLAN: So, much ado about nothing.

20           DR. POSTLEWAITE: It's hard to say. I'm  
21 sure -- I think there were sixty-four cases of  
22 leukemia that were identified among all deployers.

1       It's a fairly young person's disease, as you know,  
2       in many cases, but the number of cases among those  
3       who did not deploy at all, as I said, was seven  
4       times higher. So, we looked for those scientific  
5       data points to be able to answer those questions.

6                 DR. POLAND: Dr. Shamo.

7                 DR. SHAMOO: Thank you for your  
8       presentation.

9                 DR. POSTLEWAITE: Yes, sir.

10                DR. SHAMOO: We have here at this Board  
11       really prominent immunologists and toxicologists,  
12       and I am not one of them. So, maybe my questions  
13       are going to be very primitive.

14                I assume all your opinions from data are  
15       based on symptoms; you did not take blood, urine,  
16       hair, skin, or bone samples?

17                DR. POSTLEWAITE: That's correct. We  
18       didn't do any bio-monitoring, except for one.

19                DR. SHAMOO: You didn't do any tests to  
20       indigenous people who lived there longer?

21                DR. POSTLEWAITE: No, sir, we did not.

22                DR. SHAMOO: If that is true, then do we

1 have any moral obligations to these people -- I've  
2 asked the question over the last four years --  
3 towards the indigenous people whom we may have  
4 harmed, because there are now reports by  
5 independent investigators indicating there is  
6 damage in communication, et cetera, in children.  
7 I don't know the veracity of them, how good they  
8 are. I would rather see us do some definitive  
9 research rather than leave it to the future, you  
10 know, freelancers maybe.

11 DR. POSTLEWAITE: Yes, sir. We follow  
12 all those reports and we look at them as we can.  
13 The data available in our -- in the Iraqi health  
14 system is extremely suspect. We've looked at  
15 depleted uranium for years. We know that in the  
16 Basra region or the Fallujah region where some of  
17 these allegations are coming from, that there's a  
18 high probability of contaminated water, chemical  
19 warfare agents, and what's not known very widely,  
20 but the rate of consanguinity within the Iraqi  
21 population, particularly in rural areas, can be as  
22 high as sixty or eighty percent.

1 DR. SHAMOO: What? I don't understand.

2 DR. POSTLEWAITE: Marriage among  
3 cousins, close relatives, et cetera.

4 DR. SHAMOO: Sure.

5 DR. POSTLEWAITE: So, there are some  
6 other reasons there. Definitively, you can't  
7 point to any one thing, but we know that their  
8 medical surveillance systems -- and I talked with  
9 Iraqi doctors. They say that people come into the  
10 clinic and they said you can't believe it what  
11 they do, they take the presenting complaint, they  
12 write it down, and that becomes what they use for  
13 medical surveillance.

14 So, there's some real problems. But we  
15 realize it. We'd love to see maybe the DHO or  
16 somebody go in there and do some very good  
17 studies.

18 DR. POLAND: Let's keep moving. Dr.  
19 Oxman.

20 DR. OXMAN: Just a quick question. How  
21 well matched were the non-deployed controls of the  
22 leukemias?

1 DR. POSTLEWAITE: That's a good  
2 question. I cannot answer that question, but I do  
3 want to offer the Committee the opportunity to  
4 meet one-on-one with the investigators so that you  
5 can really dig down into the data and get your  
6 questions answered. I'm sorry I can't answer  
7 that.

8 DR. POLAND: That might be appropriate  
9 for the Subcommittee that eventually takes this  
10 on.

11 Dr. O'Leary.

12 DR. O'LEARY: This may be a silly  
13 question, but particularly with this problem known,  
14 is anyone wearing masks; and if so, what kind of  
15 masks; and if so, is that variable factored into  
16 the study?

17 DR. POSTLEWAITE: Nobody is wearing  
18 masks that I'm aware of. There may be some  
19 contractors who operate the burn pits who may,  
20 but, you know, by and large if you go over to that  
21 area of the world in the summertime when the  
22 temperature is 110, uh, you know, in the shade and

1 the dust is blowing everywhere, it becomes a very,  
2 very difficult problem.

3 The issue of respiratory protection was  
4 considered very early on in the war, and about the  
5 only thing that was able to be implemented, was a  
6 recommendation that that wore hats. It doesn't do  
7 a whole lot. But, again, we have not been able to  
8 demonstrate a long-term health risk and so is it  
9 indicated.

10 DR. POLAND: Dr. Walker.

11 DR. WALKER: Yeah, a couple questions.  
12 A couple questions on this study.

13 You said something a second ago about  
14 contractors. Are you looking at the right  
15 population? Are contractors doing this or are  
16 Service people doing this?

17 DR. POSTLEWAITE: It varies. There are  
18 a number of the burn pits that are under long  
19 contract. That means they are contractor  
20 operated. But some of the smaller facilities --  
21 let me just preface this by saying that you know  
22 many, many camps either have some sort of burn

1 operation. The smaller camps might be a barrel.  
2 They might be a single trench, and then at the  
3 larger places they may be acres in size. So, you  
4 get this whole gamut of possibilities, and in some  
5 cases they're not a problem because they're  
6 located in a place where the wind tends to blow  
7 away from the camp. In other places they are a  
8 big problem. There's just a huge amount of  
9 variability involving burn operations.

10 And in terms of the contractors, as many  
11 of you know who come from the military background,  
12 basically, contractors -- the employer or the  
13 contractor is responsible for a contractor's  
14 health and well-being. That's not to say that  
15 there isn't information exchanged in theater or  
16 even on our installations where one individual or  
17 one group will find a problem and share it with  
18 other. But, generally, military has no  
19 responsibility for contractors.

20 DR. WALKER: The second question is in  
21 your air sampling what are you actually looking  
22 for? Did I miss that?

1 DR. POSTLEWAITE: I didn't list the  
2 analyses in detail. I think I talked about them  
3 in general, but, you know, PAH's, VOC's,  
4 particulates, acid, gases, uh, those types of  
5 things are normally associated with burn  
6 operations.

7 DR. WALKER: Finally, just a general  
8 comment. Listening to you, having read the  
9 report, you know, as an epidemiologist you're -- I  
10 mean this is a conundrum. You're talking about  
11 difficulty measuring exposures, difficulty  
12 measuring where the burn pits are and what's being  
13 burned.

14 I mean, I'd like to know a scientific  
15 answer to this, but, you know, what you present --  
16 I'm not sure how you'd do it. Maybe some of my  
17 colleagues have an idea how to do this in a  
18 systematic way.

19 DR. POSTLEWAITE: It's a very difficult  
20 issue. Yeah, you're exactly right. Sure.

21 DR. WALKER: We listened a couple  
22 years ago --

1 DR. POSTLEWAITE: Right.

2 DR. WALKER: -- you have more data  
3 than they did, but the issues are the same.

4 DR. POLAND: Dr. Halperin or Dr.  
5 Lockey.

6 DR. HALPERIN: In relationship to your  
7 question again to susceptible populations, I would  
8 suspect that perhaps children in this environment  
9 undergo differential growth are a susceptible group  
10 that would look at in relationship, and because  
11 it's a varied mechanism and it can be impact by  
12 (inaudible).

13 DR. POSTLEWAITE: You're exactly right.  
14 And just a reminder here, I mean, in third world  
15 countries for how many thousands of years the only  
16 way to dispose of trash has been by burning, so  
17 this is nothing new in terms of from that  
18 standpoint, in terms of some of these countries.

19 DR. LOCKEY: Could you tell us what the  
20 IOM project is and who's funding it?

21 DR. POSTLEWAITE: It's funded by the  
22 DoD. It's an eighteen-month study. We expect the

1 results to be completed late next summer. They've  
2 been charged in a very broad fashion to take a  
3 look at health risks associated with burn pit  
4 emissions and they've also be charged with, if  
5 appropriate, present an epidemiologic design to  
6 help get to the issues.

7 You can go on the IOM web site and put  
8 in "Burn Pit Study IOM" and it will come up and give  
9 you a little more perspective then.

10 DR. HALPERIN: As far as surveillance  
11 studies, are you only using the Millennium Cohort?  
12 Are you using other cohorts? How are you  
13 identifying incidences, either morbidity or  
14 mortality?

15 DR. POSTLEWAITE: Right. We're using  
16 electronic medical information, ICD9's, that are  
17 recorded while people are in theater. We identify  
18 the cohort by going to DMDC, the Defense Manpower  
19 Data Center, telling them to identify people that  
20 have been deployed between certain dates at  
21 various base camps, and they can give us that  
22 data, and then those social security numbers are

1       then bounced against the electronic health  
2       information database.  These are ICD9 codes that  
3       were used to accomplish those successes.

4               DR. HALPERIN:  So, you only pick up  
5       cases if they're active duty?

6               DR. POSTLEWAITE:  Well, two parts for  
7       that portion of it.  Yes, that's correct.  For the  
8       Millennium Cohort Study that involved Reservists,  
9       Guardsmen, et cetera.

10              DR. HALPERIN:  Incidence or mortality?

11              DR. POSTLEWAITE:  Incidence.

12              DR. HALPERIN:  For the Millennium Cohort  
13       -- for the questionnaires?

14              DR. POSTLEWAITE:  Yes, sir.

15              DR. HALPERIN:  All right.  So, we have  
16       potential ascertainment problems in both of those.

17              DR. POSTLEWAITE:  Yes, sir.

18              DR. LEDNAR:  Okay.  As far as outcome,  
19       where there's some evidence I, you know, some  
20       evidence there's birth defects, there's leukemia,  
21       and then there's this report that some of us have  
22       read out of Denver, what can you tell us about

1 that?

2 DR. POSTLEWAITE: That's a very  
3 perplexing problem. Constrictive bronchiolitis, I  
4 believe, is the primary diagnosis. There have  
5 been in the neighborhood of several dozen  
6 individuals, primarily, that I believe were, uh,  
7 uh -- what's the base, uh, the post? I can't  
8 remember right now. But most of them were  
9 deployed -- Ft. Campbell. Is that the 101st  
10 Airborne; right? Being a blue suiter I don't know  
11 that side of the military, as well.

12 But, yes, back in 2003 there was a  
13 sulfur fire that burned for over a month near  
14 Mosul, generated plumes that went up to 40, 50,000  
15 feet and spread over a large portion of Iraq.

16 Back in 2003 we didn't have very many  
17 environmental health people in the ground to track  
18 what was on the ground level. We were very  
19 concerned about it and did what sampling we could,  
20 and then trying to characterize it we identified  
21 some acute health effects in the surrounding  
22 region, but really didn't expect any long-term

1 health effects.

2           After the 101st came back there were  
3 some individuals that were experiencing dyspnea on  
4 exercise, fairly normal PFT's. We really couldn't  
5 figure out what was going on. They referred them  
6 to Vanderbilt. Dr. Miller did a number of open  
7 lung biopsies on these individuals trying to  
8 characterize what they had and came up with these,  
9 I think about twenty of them at that point in  
10 time, I'm not sure how much the numbers are  
11 standing, identified with this constrictive  
12 bronchiolitis.

13           U.S. Army Public Health Command did an  
14 investigation on it and what they found were about  
15 two-thirds of the individuals were in the Mosul  
16 region, potentially exposed to the sulfur fire  
17 smoke, the sulfur dioxide, and other agents and  
18 about a third were not. They were located  
19 elsewhere through the theater.

20           So, we really couldn't pin it down to  
21 the sulfur fire smoke, but maybe it's a beginning.  
22 Maybe it's particulate matter, plus tobacco smoke,

1 plus whatever. There will need to be some  
2 follow-up on that, and we expect that the  
3 Institute of Medicine will be looking at that as  
4 well and providing some recommendation. What it  
5 really means, we're not sure we have all of the  
6 pathology specimens sent to AFIP. They looked at  
7 it and really weren't too impressed with what they  
8 saw, said there was a spectrum of disease and they  
9 weren't sure what it meant.

10 DR. LEDNAR: That is at the behest of  
11 your office?

12 DR. POSTLEWAITE: Yes. We're actually  
13 interacting with IOM and have briefed them on our  
14 concerns and studies, et cetera.

15 DR. HALPERIN: So, just in general, it  
16 sounds like we can't -- I mean, November was the  
17 reasonable -- I'm sorry. Not reasonable -- was a  
18 practical date, and it sounds like that's not  
19 going to work for you as far as a review before  
20 the release.

21 DR. POSTLEWAITE: We can't wait that  
22 long because pressure is being put on us, exactly.

1 DR. HALPERIN: Then just to put it on  
2 the table for discussion, we have the constraint  
3 of the exposure assessment part of your study, of  
4 your question. The real issue is expertise on DHB  
5 of people who are exposed -- and, actually, I  
6 can't identify with anyone at the present. It  
7 doesn't mean we couldn't add or identify somebody,  
8 but exposure assessment expertise on its own.

9 DR. POSTLEWAITE: An individual from  
10 NIOSH weren't able to help you all.

11 DR. POLAND: We're really getting into  
12 the operational, how would we work this question,  
13 which we could figure out off line with your help  
14 and with others' help, but we've heard the  
15 question. We've received the questions. We'll  
16 take on those questions. We'll figure it out.  
17 And, obviously, we're going to need your help to  
18 figure out how to figure it out, how to work those  
19 questions, Bill, how to work those questions.

20 Jim, did you have a question about that?

21 DR. LOCKEY: I just want to ask one  
22 question. Is there full function tests that are

1 done? Is that routine?

2 DR. POSTLEWAITE: It's not routine.

3 There have been some pilot studies on  
4 pre-deployment/post-deployment PTF's. I think the  
5 U.S. Army Public Health Command has some  
6 visibility on that.

7 In addition, there are some research  
8 projects being proposed. Potentially, it could  
9 end up being a policy, but currently it is not.

10 DR. POLAND: Okay.

11 DR. POSTLEWAITE: Thank you very much.

12 DR. POLAND: Thank you. We have still  
13 have another brief to do here, and let me just say  
14 that when we're introduced to a question, I know  
15 the Board wants to dig right into the data, et  
16 cetera, but this is not really an appropriate time  
17 to do it. It's to hear the question and then  
18 decide whether we're going to take the question on  
19 and then a Subcommittee or group would actually  
20 review those data and bring a recommendation back  
21 here. It's just not possible or feasible for a  
22 whole Board to try to do the science attendant to

1 each question.

2                   So, if you see me hurrying us along,  
3 that's why.

4                   All right. Our final speaker this  
5 afternoon is Lieutenant Colonel Greg Burbelo.

6                   Lieutenant Colonel Burbelo is the  
7 Director of the Army Center for Enhanced  
8 Performance, or you guys say it ACEP or -- Okay,  
9 ACEP.

10                   LTC BURBELO: That's  
11 correct.

12                   DR. POLAND: -- which has 9 CONUS  
13 locations at approximately ninety employees. He's  
14 co-author of "Military Application of  
15 Performance Enhancement Psychology," published in  
16 the September-October 2004 issue of Military  
17 Review and co-authored the article "Total Fitness  
18 Concept," featured in the August 2010 edition of  
19 Military Medicine. He's an active member of the  
20 Association for Applied Sports Psychology.  
21 Lieutenant Colonel Burbelo has extensive  
22 experience applying sport and performance

1 psychology with athletes and teams at United  
2 States Military Academy and Army Olympic shooters,  
3 as well as numerous operational units and Army  
4 organizations.

5           Founded at the United States Military  
6 Academy at West Point in 1993, ACEPs are now  
7 operating in other installations across the  
8 country. ACEP trainers teach individuals to  
9 acquire, practice, and master the mental and  
10 emotional skills that are the foundation of human  
11 performance by using state-of-the-art  
12 technologies, best practices in education and  
13 applied sports psychology techniques. Tomorrow  
14 you'll actually have the opportunity to tour the  
15 ACEP.

16           Dr. Burbelo's slides are under TAB 10.

17           LTC BURBELO: Thank you.

18           Good afternoon, everyone. And thanks,  
19 Ms. Bader, for inviting me here today. That was a  
20 great intro, and I'd just like to tag onto the  
21 great presentation by the cadet on the CPD, as  
22 well.

1           The Center that you're going to visit  
2 tomorrow is kind of another sister center  
3 organization at the Academy that supports the  
4 corps of cadets. The program that I'm the  
5 Director of came out of the Academy Center For  
6 Enhanced Performance, which was built for the  
7 cadet's academic, physical, and military  
8 development.

9           In 2004, General Stu Baker, the then  
10 Chief of Staff in the Army, directed for me to get  
11 this program up to the Army. So, over the last  
12 several years we have stood up these nine centers,  
13 and as recently as this past month stood up a  
14 tenth center at Redstone Arsenal where the Army's  
15 Explosive Ordnance and Detachment School is  
16 located.

17           We had a lot of talk about psychology,  
18 and I know there's a few psychologists in here.  
19 When we look at it from a performance standpoint,  
20 not a clinical or medical approach, when you look  
21 at Army doctrine of kind of why we exist -- I'm  
22 well-read on Army leadership. It goes into great

1 details on what a leader must be known to do, what  
2 a warrior must be known to do. It describes it in  
3 detail.

4           One of those attributes is confidence.  
5 It's actually cited over about sixty times in  
6 the Army Leadership Manual. It tells you that  
7 leaders must be confident. That doesn't give any  
8 kind of instruction on the leader development  
9 process to get there. It tells you, you must be  
10 composed. It cites that at least great leaders  
11 are composed at least a dozen or fifteen times,  
12 but there's no instruction on leader development  
13 process or warrior development process to build  
14 that composure, and so on and so forth.

15           So, what we have tried to do with this  
16 program, and we surely don't have all the answers,  
17 is try to operationalize a lot of these almost  
18 seemingly intangible leader attributes, leader  
19 soldier attributes that are really the  
20 cornerstones of what it means to be a warrior and  
21 a soldier.

22           So, again, Army doctrine tells us what

1 we must be. The ACEP Program is geared towards  
2 educating and training soldiers to actually  
3 acquire those skills that underlie those  
4 attributes.

5 We know the Army does a great job. My  
6 Army does a great job of putting soldiers in  
7 stressful, realistic training environments to  
8 prepare them for war and the combat so they can  
9 handle those environments. So, we see it blends  
10 in very nicely.

11 Our current mission, and I think one of  
12 the gentlemen over here during the CPD asked a  
13 question about the full potential. I can't  
14 rephrase the question. But our mission is to  
15 develop the full potential, and our whole program  
16 is focused on performance, personal strength,  
17 professional excellence, and the Warrior Ethos,  
18 which is really again a cornerstone of what we're  
19 trying to build in the Army.

20 The four mission essential tasks that  
21 we're providing is, one, performance enhancement  
22 education and training, which grew out of the

1 multiple fields. Initially, from sports  
2 psychologist, but we drew from many different  
3 disciplines the best practices, but also some of  
4 the people-building activities.

5 Resiliency training. We're currently  
6 collaborating and partially funded from the  
7 Soldier Fitness Program and we're providing a lot  
8 of the expertise. I've got instructors right now  
9 that are down at the Master Trainer Course  
10 providing some training.

11 And then, lastly, the Learning  
12 Enhancement Program, which we'll get into.

13 Our current location is as stated.  
14 Current mission support. To kind of give you a  
15 quick overview of where we're at in the TRADOC, on  
16 this graphic right here, TRADOC, which is Training  
17 and Doctrine Command, where all the Army does all  
18 its education and training, we're in the U.S.,  
19 incorporating the U.S. Drill Sergeant's School,  
20 spells the explosive disposal attachment for  
21 soldiers as a looking uniform.

22 They recently made a movie, "The Hurt

1 Locker," but those two specific schools that train  
2 drill sergeants and EOD and use ISOC where our  
3 site was located, was a Special Operations command  
4 at Ft. Bragg working with their training, as well  
5 as their Operational SP Team. So, they have  
6 definitely gravitated toward what we have to  
7 offer.

8 In MEDCOM we're working down at Ft. Sam  
9 Houston with a lot of the medical professionals,  
10 and I'll get into detail as to exactly why, but  
11 there are multiple reasons anywhere from we're  
12 looking at, you know, my performing medical  
13 professional and the need to be as a medical  
14 professional. One of the (inaudible), the 68  
15 Whiskey, might for six months a nurse case manager  
16 for fifty-two weeks long and requires a national  
17 licensing exam (inaudible). Most of them do not  
18 have a college degree.

19 So, it's a very rigorous school. It's  
20 very demanding, high attrition rates, and we're  
21 helping to support that as well as mitigating  
22 effects like combat fatigue, supporting that

1 endeavor.

2           The other audiences, we're working with  
3 families, the Department of the Army, civilians,  
4 and the Forces Command, we're working with many  
5 operational units, 82nd Airborne, 101st Striker  
6 Brigades, and you name it.

7           And then lastly, which is about  
8 twenty-five percent of our mission, the warriors  
9 in transition. And, again, when you look at it  
10 from a performance perspective, since we're not a  
11 clinical or a medical organization, what we're  
12 working with a command and with their mission is  
13 to really get, uh, to have the warriors in  
14 transition take ownership for their  
15 rehabilitation, get inspired about their future.  
16 So, it's very rewarding work. We touched a lot of  
17 folks over the last year.

18           One of our mission essential tasks is  
19 this Performance Enhancement Education Model, and  
20 what you see here is a model that has been in  
21 design approximately fifteen years or so and  
22 modified, because it's really a series of best

1 practices, though we know some evidence-based  
2 practices that are effective and kind of put them  
3 into a package model where we're able to educate  
4 the student, acquire and apply a lot of these  
5 mental skills. And really, our goal is to get the  
6 transfer of a lot of these mental skills across  
7 the broad spectrum of performance, whether it's  
8 professional and/or personal.

9           The team building. We do some great,  
10 great teams exercise. We do them with unit chain  
11 of commands, smaller units and whatnot. But  
12 again, another one of these attributes is  
13 cohesion. And we know about social, the  
14 importance of social support. We actually do a  
15 lot of activities to help facilitate, help  
16 commanders create that vision for an organization.

17           The resiliency training. We've  
18 collaborated again with Comprehensive Soldier  
19 Fitness -- soldier fitness questions with the  
20 University of Pennsylvania with some of their  
21 resiliency training. All of my instructors are  
22 getting trained up on it so we are providing

1       resiliency specific training across many  
2       locations, and the Army's newer school that's been  
3       recently established.

4                   The Learning Enhancement Program.  
5       Again, you'll get a little snapshot of this  
6       tomorrow morning, but it grew out of the Academy,  
7       so the Academy has this Academic Enhancement  
8       Program within the Army Center for Enhanced  
9       Performance that really talked about mastering  
10      these academic skills to a high performance  
11      student.

12                   What we find to be extremely applicable  
13      is in some of the Army schools -- for instance, at  
14      Ft. Bragg, the language course. We have these  
15      high speed Warrior, Airborne, Ranger, Special  
16      Forces, Scuba, Halo guys that have to go learn to  
17      speak Arabic for six months. They have to pass  
18      the test, and it's pretty tough business. And you  
19      know their careers are on the line, so we are  
20      helping them to master some of these underlying  
21      study skills to help them be a good performer in  
22      it so they can get their language requirement.

1           At Ft. Sam Houston and 68 Whiskey, it's  
2           an extremely tough attrition rates. And most  
3           recently the Explosive Ordinance Disposal course,  
4           and I see there's several folks here from the Navy  
5           and the Army who have been having some challenges,  
6           we do Phase 1 of this DoD course for the Army and  
7           then we send them to Eglin Air Force Base up to  
8           the DoD School and seventy percent of the soldiers  
9           training from the DoD school that are not making  
10          it are due to academic reasons. Not physical, but  
11          academic. So, we're incorporating our  
12          capabilities to help soldiers develop these  
13          underlying skills in a multitude of activities to  
14          be successful.

15                 We've had that great program evaluation.  
16          We've got a research team, and you're going to get  
17          a snapshot of the research we've been doing, but  
18          from a quality of problematic standpoint  
19          satisfaction surveys, we've got a really good  
20          feedback from the Force where we've been able to  
21          really militarize a lot of what we've been able to  
22          do really resonates with the soldiers, with the

1 commanders, and we've got Brigade Commanders  
2 asking us when we're going to come on their unit.  
3 So, we built a great reputation that we're very  
4 proud of.

5           Lastly, I'd just like to comment on our  
6 strategic network. We think it is absolutely  
7 critical, but because we don't have all the  
8 answers, but I think we're definitely onto  
9 something and we're collaborating with multiple  
10 agencies, like Walter Reed Army Institute of  
11 Research, many, many first rate institutions of  
12 higher learning, and most recently with the Office  
13 of the Secretary of Defense for Psychological  
14 Health Affairs, and I think Dr. Jill Carty, I think  
15 is a good transition where this is one  
16 collaborating effort that we're doing, and I'm  
17 going to turn it over to her to introduce one of  
18 my research teams and we'll close it down.

19           Thank you very much. Again, I know your  
20 time is precious. You're more than happy to see  
21 me off line or we can -- we have plenty of time  
22 tomorrow morning as you do the tour. We're going

1 to have a nice round robin and you can ask us all  
2 the questions and all the deep thinking questions  
3 for the research team, et cetera. So, we're  
4 looking forward to that conversation.

5 Thank you.

6 DR. CARTY: Can you hear me? Thank you,  
7 Ms. Bader, for inviting us today and Lieutenant  
8 Burbelo for the brief on ACEP.

9 I'm taking the opportunity here, as  
10 Lieutenant Burbelo said, to introduce to you Dr. Jon  
11 Metzler, who is holding up a TMA psychological  
12 health project. Actually, it's a preventive  
13 psychological health demonstration project for  
14 active duty personnel, which is being conducted at  
15 Ft. Hood, and it's actually a resiliency training  
16 project.

17 While we know that resiliency has become  
18 an everyday household word, it's still  
19 acknowledged that there's no standard definition  
20 for this term, although most definitions include  
21 exposure to adversity and an adaptive response to  
22 this exposure. As such, we think we have a very

1 unique experimental study with outcome measures  
2 that we're conducting that I hope will inform us  
3 whether mental health strengthening assay -- ACEP,  
4 as on the ACEP Education Program is this Mental  
5 Health Strengthening Program that we're  
6 investigating, whether that will actually have an  
7 impact on enhanced performance, on a report of  
8 resiliency and hardiness and whether, in fact,  
9 will be a prevention of negative mental health  
10 outcome.

11 Without further ado, I present to you  
12 Dr. Metzler.

13 DR. METZLER: Thank you, Jill, and thank  
14 you for having us here. I'm going to give you a  
15 brief overview of one study that we had designed  
16 to execute at Ft. Hood.

17 We can go in more detail and answer your  
18 questions, and then again tomorrow when you meet  
19 the research team, or at least myself and Dr.  
20 Herotta, who is also part of the research team.

21 But as you can see from this slide this  
22 gives us an overview of the study design that we

1 have our ACEP model on the left here and that  
2 contains the feature components that we try to  
3 teach, mental skills, and based on the proper  
4 psychology literature we try to enhance  
5 confidence, enhance goal-setting skills, focus  
6 people's attention, help them maintain composure  
7 and manage their energy under stressful situations,  
8 and then use imagery to rehearse tasks that they  
9 will be performing so they're fully prepared to  
10 engage in those tasks under stressful situations  
11 so they can thrive under pressure.

12 Those principles map onto some of the  
13 things that we talked about when we look at  
14 resiliency factors which could prevent mental  
15 health risk.

16 Now, this is somewhat of a stretch, and  
17 to really emphasize the point that ACEP was  
18 designed to enhance performance, so when we look  
19 at this study design, I just want to highlight that  
20 our primary outcomes here are enhancing  
21 performance, and that's what we're interested in  
22 from an ACEP perspective, but we also think that

1 due to the overlap conceptually that we might  
2 enhance resiliency and, therefore, lead to reduced  
3 mental health risk post-deployment. So, that's  
4 the overview of the model.

5 The methods that we're going to use, we  
6 are collecting data from 1800 deploying soldiers  
7 at Ft. Hood who are enrolled in the CLS or Combat  
8 Life Saver Training Program, and I'll relate to  
9 that a little bit in a minute. This is not a true  
10 experimental design, it's quasi-experimental,  
11 which is nice because, obviously, the training  
12 environment pre-deployment, we don't need to  
13 disrupt that by any means.

14 So, at Ft. Hood we want to just in the  
15 training environment and the Ft. Hood commanders  
16 send soldiers to CLS as needed. So, they come in  
17 relatively randomly into the CLS course and that  
18 provides a nice atmosphere for us to get a range  
19 of distribution of our population.

20 We have natural scheduling that occurs.  
21 Obviously, the soldiers come in as the Command  
22 delegates and, therefore, we will have random

1 soldiers and random units in a natural setting.  
2 We will be using alternate weeks for experimental  
3 controls, so a week on for an experimental piece  
4 of study and then the alternating weeks we'll have  
5 a controlled group come through, and I'll talk  
6 exactly about the intervention here in a second.

7           We have multi-methods for our  
8 procedures. We are going to collect data via  
9 self-report. We do have observations, but we will  
10 have performance rating based on the CLS  
11 instructors and how they do Combat Life Saver  
12 Skills, and then we have to augment training  
13 intervention, and I'll just take a minute to speak  
14 about that.

15           Combat life Saver Training is designed to  
16 enhance specific skills. Specifically, can you  
17 attend to the pressure points, you can attend to  
18 tourniqueting, clear airways, seal up sucking  
19 chest wounds and so forth.

20           These are essential skills that CLS is  
21 trying to train. What we're going to do is use  
22 that as a control condition and then layer ACEP on

1 the top to see if ACEP training can augment the  
2 CLS training to performance outcomes, as well as  
3 post-deployment mental health outcomes.

4 Here's an overview of the methods  
5 categories of methods that we're going to be  
6 looking at. Of course we want to highlight in red  
7 here the central outcomes. Hardiness. We're  
8 looking at using Maddy's Personal Views Survey,  
9 which is the most acceptable hardiness measure out  
10 there, and Maddy has looked at in terms of setting  
11 up hardiness interventions to see changes in  
12 hardiness over time.

13 The resilience scale, we're using the  
14 Connor-Davidson Resilience Scale. You see the  
15 risk, and then we'll be obtaining data from the  
16 Defense Medical Surveillance System, the PDHRA  
17 data, PDH data, which I believe most of you are  
18 familiar with. So, we will be obtaining --  
19 there's ten items there that relate to mental  
20 health, and we'll be obtaining a composite score  
21 off of that operationalize the mental health risk.

22 Lastly, the performance which will be

1       assessed via the rating of the Ft. Hood, Medical  
2       Simulation Training Center, MSTC, as they're  
3       known, and then rate performance on CLS skills.

4                 Why are we using Combat Life Saver? We  
5       have here on the left a classroom and on the right  
6       a simulated battlefield. One of the nice things  
7       about the Ft. Hood MSTC, the Simulation Center, is  
8       there they take their CLS classroom training and  
9       they actually subject the soldiers to a simulation  
10      of going through a Middle Eastern city, a hundred  
11      degree temperature, prayer calls, enemies shooting  
12      paint balls at them, simulated combat, and have  
13      them perform the CLS skills that they learned over  
14      the week in that environment.

15                This is precisely what we're looking at  
16      in terms of performance psychology in thriving  
17      under pressure. And this is, from what I  
18      understand unique, that Ft. Hood engages in that.  
19      We have anecdotal evidence that soldiers in a  
20      classroom can actually engage these skills  
21      successfully about ninety percent of the time, but  
22      when they're in a simulated environment that drops

1 to about forty or fifty percent. I can't imagine  
2 what it would drop to in theater when the pressure  
3 is even greater.

4 So, obviously, this is a nice environ-  
5 ment for us to test the performance outcome.  
6 Plus, if we can have the effects that we desire  
7 that ACEP is meant to do, then, hopefully, we can  
8 actually engage this in theater and reduce the  
9 amount of casualties on the battlefield.

10 The expected outcomes of our study,  
11 obviously, this will give us a nice analysis of  
12 ACEP training with a very tangible performance  
13 outcome and then we can make some assessment of  
14 how the training works, what tweaks we need to  
15 make to the training to enhance performance, and,  
16 of course, ultimately, we hope we see reduced  
17 post-deployment mental health risks as the  
18 function, but this is a relatively exploratory  
19 setting.

20 So, with that said, that's a generic  
21 overview for you, and we will take any questions  
22 regarding the design.

1 DR. POLAND: Thank you for that  
2 presentation.

3 DR. WALKER: I have a question about  
4 performance.

5 Performance can be observed at the  
6 individual soldier level when we receive less  
7 skills. So much of what that needs to be done,  
8 especially in theater, is not so much individual  
9 effort but the squads and teams working  
10 effectively together. So, at some point we'll be  
11 looking at the performance of natural unit work  
12 teams or groups. It's not just at the individual  
13 level. But how does a team perform under the  
14 discussed situations?

15 DR. METZLER: Well, thank you for that  
16 question.

17 The beauty of the design of this  
18 simulation is that at Ft. Hood, soldiers are placed  
19 into squads of ten and they actually engage in a  
20 squad performance, if you will, outside of the  
21 building that they're going into where the  
22 casualties will be located.

1                   So, we will actually be operationalizing  
2 a squad performance within the study as well as an  
3 individual level performance.

4                   So, we will have been able to get that  
5 data and look at the effects of what we do on  
6 performance at both levels.

7                   DR. WALKER: How do you get your data  
8 from post-deployment?

9                   DR. METZLER: That will be via the PDHA  
10 and PDHRA that comes in. That's a uniform  
11 assessment that health care providers use and then  
12 is sorted in a database.

13                  DR. POLAND: Okay. No other questions?  
14 I guess, as I said, you'll get to see ACEP  
15 tomorrow. So, thank you. We look forward to  
16 that.

17                  DR. METZLER: Thank you.

18                  DR. LEDNAR: Ms. Bader, would you like  
19 to dismiss us?

20                  MS. BADER: First, thank you all so much  
21 very much for your patience today. Obviously, the  
22 Board has a lot of work in front of them, and I

1 appreciate all of the great questions from the  
2 Board members, and, of course, the fantastic  
3 presentations from all of our presenters today.

4 This concludes today's session of the  
5 Defense Health Board. Again, we look forward to  
6 our continued role in serving the Secretary of  
7 Defense.

8 Bear with me for thirty more seconds. I  
9 have some administrative remarks regarding this  
10 evening and tomorrow.

11 First, there's a manila envelope on the  
12 left side of your binders. Please put your  
13 materials in there if you'd like to take your  
14 materials home with you.

15 We encourage you to check out at the  
16 appropriate time from your hotel room first thing  
17 in the morning because there is, in fact, a \$50  
18 per hour hotel fee beyond the time of original  
19 checkout if you check out late, and the hotel  
20 will hold your luggage. So, please, we're  
21 encouraging a timely checkout.

22 Breakfast will be available tomorrow

1 morning next door at 7 a.m. and bus transportation  
2 will depart from the hotel at 7:45. We will have  
3 a guided tour of the Academy. We will have an  
4 opportunity to walk through Thayer Hall which  
5 houses the majority of the cadet classrooms. We  
6 will not be able to walk into any occupied  
7 classrooms, but you'll still need to see the  
8 cadets in action, especially recognizing how small  
9 the classes are.

10 From 10:45 to 11:50 we'll tour ACEP. We  
11 will walk from the ACEP over to lunch and we will  
12 all have an opportunity to lunch with the cadets.

13 Lunch will end at approximately 12:45.  
14 Lunch has been prepaid. If you have not RSVP'd,  
15 please see Jen Klevenow so she can provide a head  
16 count to the personnel that are assisting in  
17 coordinating our day tomorrow.

18 Shuttle service is available back to The  
19 Thayer at approximately 9:45 a.m., 10:45, 11:45  
20 and 12:45 if you're not able to participate in the  
21 full day's events.

22 We are encouraging you to wear

1 comfortable clothing and shoes as we will be  
2 getting out of the bus, especially during the tour  
3 to walk a bit around the Academy grounds.

4 For those of you who are coming to  
5 dinner at Painter's Inn and Restaurant, we will  
6 ask you to convene in the lobby at about 6:15. It  
7 gives us about twenty minutes to get up to our  
8 rooms and change clothes as appropriate. We will  
9 return to the hotel probably a little bit later  
10 than was originally anticipated, maybe closer to  
11 9:00 tonight.

12 Again, please pay Jen Klevenow for your  
13 evening meal if you have not already done so.

14 Thank you all very much for attending.  
15 This meeting of the Defense Health Board is  
16 adjourned.

17 (Whereupon, at 6:00 p.m., the  
18 PROCEEDINGS were adjourned.)

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## 1 CERTIFICATE OF NOTARY PUBLIC

2 I, Carleton J. Anderson, III do hereby  
3 certify that the witness whose testimony appears  
4 in the foregoing hearing was duly sworn by me;  
5 that the testimony of said witness was taken by me  
6 and thereafter reduced to print under my  
7 direction; that said deposition is a true record  
8 of the testimony given by said witness; that I am  
9 neither counsel for, related to, nor employed by  
10 any of the parties to the action in which these  
11 proceedings were taken; and, furthermore, that I  
12 am neither a relative or employee of any attorney  
13 or counsel employed by the parties hereto, nor  
14 financially or otherwise interested in the outcome  
15 of this action.

16 /s/Carleton J. Anderson, III

17

18

19 Notary Public in and for the

20 Commonwealth of Virginia

21 Commission No. 351998

22 Expires: November 30, 2012