

THE DEPARTMENT OF DEFENSE

TASK FORCE ON THE FUTURE OF MILITARY CARE

A subcommittee of the Defense Health Board

DELIBERATIONS OF DRAFT INTERIM FINDINGS AND
RECOMMENDATIONS FROM THE FUTURE OF MILITARY HEALTH
CARE TASK FORCE

May 23, 2007

Arlington, Virginia

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

2 (8:30 a.m.)

3 DR. POLAND: Good morning everybody.

4 Welcome to this meeting of the Defense Health
5 Board including a big one for this afternoon, so
6 we'll go ahead and get started. Unfortunately,
7 Dr. Cassells will only be here in the afternoon
8 session, so we will introduce him then. In your
9 notebook I believe is a two-page bio so that you
10 can know something about Dr. Cassells, our new
11 Assistant Secretary of Defense for Health Affairs,
12 and also the Delegated Sponsor for the Board.

13 Given that, I'm going to ask Roger to
14 function as the DFO and open the meeting.

15 COLONEL GIBSON: As the Alternate
16 Designated Federal Officer for the Defense Board,
17 a Federal Advisory Committee to the Secretary of
18 Defense which serves as a continuing scientific
19 advisory body to the Assistant Secretary of
20 Defense for Health Affairs and the Surgeons
21 General of the Military Departments, I hereby call
22 this session of the Defense Health Board to order.

1 DR. POLAND: Thank you, Roger. As we
2 have now learned, you have to push this button and
3 the little red glow will come on. If we could now
4 following our tradition of the Board, stand for a
5 moment of silence to honor those who are here to
6 serve.

7 (Moment of silence)

8 DR. POLAND: We will start with some
9 administrative remarks from Colonel Gibson.

10 COLONEL GIBSON: Good morning and
11 welcome. I want to thank the staff of the Holiday
12 Inn for helping us with the arrangements for this
13 meeting, and all the speakers for all their hard
14 work in preparing their briefings for the Board.
15 Please sign the general attendance roster on the
16 table over here in the corner if you haven't done
17 so. One of the requirements of the Federal
18 Advisory Committee is that we have to track those
19 who attend the meeting.

20 The rest room are located just outside
21 the door. If you need telephones, faxes, copies,
22 or messages, see Karen or Lisa. The next meeting

1 of the Board will be September 19th and 20th in
2 San Antonio, Texas. At this meeting will complete
3 deliberations on a number of open Board business
4 items and receive briefings on the Defense
5 Disability System, amputee patient care, and we'll
6 tour the Amputee Center at Brooke Army Medical
7 Center. The Board will also conduct a day-long
8 administrative session on September 18th, so we
9 will actually be there for a 3-day meeting.

10 Through the Uniform Services University
11 we were able to get 1.75 continuing medical
12 education credits for this meeting. So supersede
13 the credits you need to sign the attendance roster
14 and complete the evaluation form and attest
15 statement for the meeting for the meeting and hand
16 them in to Ms. Jarrett or Ms. Triplett. For Board
17 Members, the evaluation form is in your notebooks.
18 We will mail out the CME certificates when we
19 receive them from -- finally, a reminder this
20 meeting is being transcribed. It's an open
21 session. So please speak clearly into the
22 microphones and state your name before you begin.

1 Also turn off any pagers, Blackberries, or cell
2 phones as they may interfere with the AV system.
3 That's all I have.

4 DR. POLAND: Thank you, Colonel Gibson.
5 I do want to introduce one of our distinguished
6 visitors who is with us today, and that is Rear
7 Admiral David Smith. Welcome. Thank you for
8 joining us. We will also go around the table and
9 then to the perimeter asking people to introduce
10 themselves, and if I could start to my right.

11 DR. MILLER: Mark Miller from the
12 Fogerty International Center at NIH.

13 DR. LAUDER: Tammy Lauder, physical
14 medicine and rehabilitation, Wisconsin.

15 DR. LEDNAR: Wayne Lednar, Eastman
16 Kodak, Rochester, New York.

17 DR. MCNEILL: Mills McNeill, Mississippi
18 Department of Health.

19 DR. PARISI: Joe Parisi, Pathology
20 Subcommittee. I'm at the Mayo Clinic in the
21 Department of Lab Medicine and Pathology.

22 MS. ZAKI: Sherif Zaki at the CDC in

1 Atlanta.

2 COLONEL STANEK: Colonel Scott Stanek.
3 Army Staff Officer.

4 COLONEL SNEDECOR: Mike Snedecor, Air
5 Force Preventive Medicine Officer.

6 CAPTAIN NAITO: Neal Naito, Bureau of
7 Medicine and Surgery, Navy.

8 COLONEL ERICKSON: Loren Erickson, DOD.

9 LIEUTENANT COLONEL GREIG: Tom Greig,
10 Clinical and Program Policy Health Affairs.

11 LIEUTENANT COMMANDER LUKE: Lieutenant
12 Commander Tom Luke, Bureau of Medicine and
13 Surgery.

14 COMMANDER FEEKS: Ed Feeks,
15 Headquarters, Marine Corps, Preventative Medicine
16 Officer.

17 LIEUTENANT COLONEL HACHEY: Wayne
18 Hachey, ODS Health Affairs.

19 LIEUTENANT COLONEL SILVER: Aaron
20 Silver, Joint Staff, Health Services Support
21 Division.

22 LIEUTENANT COMMANDER SCHWARTZ: Lieutena

1 nt Commander Schwartz, Preventive Medicine
2 Officer, U.S. Coast Guard.

3 DR. OXMAN: Mike Oxman, University of
4 California, San Diego.

5 DR. SILVA: Joe Silva, Professor of
6 Medicine, University of California, Davis.

7 DR. PRONK: Niko Pronk, Health Partners,
8 Minneapolis.

9 DR. SHAMOO: Adil Shamoo, University of
10 Maryland School of Medicine.

11 DR. PARKINSON: Mike Parkinson, Lumina
12 and WellPoint.

13 DR. HALPERIN: Bill Halperin, New Jersey
14 Medical School, and School of Public Health.

15 DR. GARDNER: Pierce Gardner, Medicine
16 and Public Health at State University of New York
17 at Stony Brook.

18 REAR ADMIRAL SMITH: Dave Smith. I'm
19 the incoming Joint Staff Surgeon.

20 COLONEL GIBSON: Roger Gibson, the
21 Executive Secretary for the Defense Health Board.

22 DR. POLAND: Greg Poland, Professor of

1 Medicine and Infectious Diseases, Mayo Clinic,
2 Rochester, Minnesota.

3 COLONEL COX: Kenneth Cox, Force Health
4 Protection and Readiness Programs.

5 MAJOR KIRK: Major Lisa Kirk, National
6 Guard Bureau, Joint Staff Surgeon's Office.

7 COLONEL DEFRAITES: Colonel Bob
8 DeFraites, Headquarters, Medical Research Materiel
9 Command.

10 DR. RILEY: Brian Riley, Occupational
11 Medicine resident at USIS.

12 MS. MILHISER: Ellen Alton Milhiser.

13 MS. LANGE: Gundrun Lange, VA War
14 Related Illness and Injury Study Center.

15 LIEUTENANT COLONEL BLONDEAU: Lieutenant
16 Colonel Sharon Blondeau.

17 DR. KITCHEN: Lynn Kitchen, Military
18 Infectious Disease Research Program.

19 MR. CASTERLINE: Dan Casterline, Merck
20 Vaccine Division.

21 MR. SHOEMAKER: Dave Shoemaker,
22 Preventive Medicine, Military Sealift Command.

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1 MR. ZOERHOFF: Mitchell Zoerhoff.

2 MS. JARRETT: Lisa Jarrett, CCSI, a
3 contractor, Defense Health Board.

4 DR. ERDTMANN: And dead last is Rick
5 Erdtmann from the IOM.

6 DR. POLAND: But certainly not least. I
7 forgot to introduce as one of our distinguished
8 visitors Rick from the IOM I think because I've
9 been sitting there chatting with him, so I knew
10 you were here but nobody else did. Also I want to
11 publicly thank Bill Halperin for chairing the last
12 meeting in my absence. Thank you, Bill, very much
13 for doing that.

14 Our first speaker for the opening
15 session will be Colonel Ralph or Loren Erickson,
16 Director of DOD's Global Emerging Infectious
17 Surveillance and Reporting System. He is going to
18 give us an update on GEIS and its activities.
19 Roger and I had the opportunity to get a brief
20 from Loren and see the facilities. Thank you very
21 much for that. It was enlightening to see it.
22 His slides are in Tab 3, I believe it is. So,

1 Loren, the floor is yours.

2 COLONEL ERICKSON: Thank you, Dr.
3 Poland. Good morning, Defense Health Board, in
4 particular Admiral Smith, Dr. Poland, and Colonel
5 Gibson and distinguished guests. It's an honor to
6 be here. There are a lot of slides that you have
7 under that Tab 3. I am not going to speak to each
8 and every slide, but I will endeavor to give you a
9 very quick reintroduction to GEIS and then an
10 update on something of the things that we've
11 involved with.

12 Just to remind the Board, these are the
13 key functions that GEIS is engaged with. In the
14 military we would call this a critical task list.
15 Just to remind the Board, we are answerable to the
16 Assistant Secretary of Defense for Health Affairs,
17 now Dr. Cassells, his staff, Ms. Ellen Embry. We
18 are funded through that office and yet we provide
19 support through the Army. The Army Surgeon
20 General is the executive agent for GEIS.

21 To remind people, these are the
22 surveillance priority areas in which we work all

1 of which are of military relevance. We are in
2 fact a global network anchored by five overseas
3 labs, those being Lima, Peru, Cairo, Egypt,
4 Nairobi, Kenya, Bangkok, Thailand, and Jakarta,
5 Indonesia. In addition, we have major GEIS
6 partners that run major labs and agencies in the
7 United States. In addition, we have a full-time
8 GEIS staff member who works in Geneva,
9 Switzerland, at WHO. That currently is Captain
10 Glen Schnepf. He will be replaced this summer by
11 Commander Matt Lim.

12 These are the previous directors of
13 GEIS, two individuals who are well known to this
14 Board. Dr. Kelley currently is with Dr. Erdtmann
15 at the Institute of Medicine, and Dr. Malone is
16 with the State Department. This is our new home
17 that Dr. Poland was alluding to. This is just
18 outside the Beltway within site of the Mormon
19 Temple. We certainly want to welcome all of you
20 to come visit us as you have opportunity. Just
21 give us a call and we'll be glad to show you our
22 facility. This in fact will be probably the first

1 home of the Armed Forces Health Surveillance
2 Center, a new entity which is expected we think to
3 take shape in the coming months.

4 We at this new facility have a
5 communications center which we have recently
6 equipped. This will be not an operations center
7 but, rather, a communications center which will
8 handle the flow of information for outbreak
9 investigations and perhaps pandemic awareness as
10 well. These are some of the parts of the U.S.
11 Government that we are in regular collaboration
12 with. I won't go through all of these, but just
13 to let you know that we are working at an
14 interagency level on a weekly basis working a lot
15 of very strategic issues especially as it relates
16 to pandemic influenza preparedness.

17 This is a picture that's in our Annual
18 Report. If I can just ask by a show of hands from
19 the members of the Board, did you receive this by
20 mail any of you? I see a few hands. Let me just
21 ask the Board Members, at the break or at the
22 lunch if you would like a copy of our Annual

1 Report, please just let me know and we'll make
2 sure that you get that. And Roger, we'll send you
3 more copies as well for distribution.

4 Emerging infectious diseases in the news
5 right now include some of these, extensively drug
6 resistant tuberculosis you may have heard about in
7 South Africa. Chikungunya in East Africa in the
8 Indian Ocean. This has been a big concern to our
9 French colleagues especially in Reunion. There
10 have been outbreaks involving select agents in
11 recent days. These are the types of things that
12 we are continually looking at and deciding whether
13 or not we need to respond from the DOD GEIS
14 platform.

15 One particular disease is Rift Valley
16 fever. We have a collaboration going on with NASA
17 at the present time where they use a variety of
18 modalities of satellite imagery and modeling. In
19 fact, they were able to product back in September
20 based upon rainfall and surface temperature and
21 reflectivity and a few other parameters that we
22 could expect a return of Rift Valley fever in East

1 Africa. In fact, that ended up being the case.
2 This is a picture that's taken from MMWR that
3 shows in fact the different districts within Kenya
4 where in fact there were not only animals
5 affected, but human cases of Rift Valley fever.
6 And this is also a graph from that same MMWR
7 article which shows the epicurve, and you'll
8 notice a few of the interventions which involved a
9 ban on slaughtering and animal vaccination that
10 began toward the end of the epicurve. Just to
11 emphasize, GEIS's role was with NASA to predict
12 that this would happen. Once the prediction was
13 made known, our lab partners in the Nairobi lab,
14 USAMRU-K, were actually in the field collecting
15 bugs to start looking for the virus and in fact
16 detected the virus at the front end of the
17 outbreak. They were able then to participate with
18 the World Health Organization, with CDC, with
19 KEMRI and other partners to then mount an
20 international response to this reemerging disease.

21 Other emerging infectious diseases of
22 importance to the military that GEIS is starting

1 to look at currently, but I will have to be
2 invited back to give you more details on these,
3 include wound infections in our soldiers returning
4 from overseas and we're looking again at
5 respiratory disease. In Afghanistan there was
6 concern by the ISAF Surgeon that we might have
7 pertussis in some of those young adults.
8 Adenovirus as you've been previously briefed by
9 Kevin Russell continues to be a problem at our
10 basic training posts, but in particular adenovirus
11 has been a predominant strain in this last year.
12 In addition, hepatitis E is a concern of ours in
13 deployed forces. And these last three areas are
14 areas where we think we probably are seeing
15 morbidity, we are seeing cases, but they are not
16 necessarily being diagnosed in a timely fashion.
17 So these are just some of the ticklers that,
18 Roger, if you'll invite us back we may want to
19 talk about at a later date.

20 Let me talk about relationships that
21 GEIS is forming. Two weeks ago I was in
22 Marseilles visiting our French colleagues at the

1 Tropical Medicine Institute. This is a world-
2 renowned institute which is comparable to our
3 Walter Reed Army Institute of Research. We have
4 common cause with our French colleagues not just
5 because we're drawing closer to them in a major
6 agreement between Fort Detrick and the French
7 military for both surveillance and research, but
8 for these other emerging diseases that we have
9 alluded to. I just want to let you know that the
10 French Army just like the American Army, they are
11 deployed overseas. They have a number of issues
12 that they have to deal with which are very, very
13 similar to the ones that we deal with. They have
14 cases of malaria coming out of Africa in their
15 deployed forces. They have problems in other
16 areas as well. I like this map because I learned
17 something about France. Places like French Guiana
18 in the northern part of South America is actually
19 considered part of the country of France. It is
20 called a Département. It's not a colony. It's
21 not a separate country. It's actually a part of
22 France, and France has significant landholdings in

1 a lot of different areas where they then have
2 troops. So I think we have some great
3 opportunities to work with our French colleagues.

4 Just to highlight one particular area of
5 military concern many of you would have heard
6 about in this last year, 20,000 cases of
7 meningococcal disease in Ivory Coast, and this
8 included 1,600 deaths. Incidentally, this
9 particular tropical medicine institute in
10 Marseilles, one of the founders of the institute
11 was credited with originally describing the
12 meningococcal belt which reaches across Equatorial
13 Africa.

14 In addition, I had the good opportunity
15 to meet with our German colleagues within the
16 German military, the Bundeswehr, at the
17 Microbiology Institute which again is a good
18 correlate to the work that GEIS is doing also with
19 the State Health Department in Bavaria. Just very
20 quickly, the Germans in addition are participating
21 in military operations in a lot of different areas
22 not to the same degree as the Americans of the

1 French, their work is nearly always with the U.N.,
2 but again they have the same concerns. If you saw
3 the article from JAMA today, for instance, it was
4 under the Letters to the Editor and highlighted
5 some of the military experiences in Afghanistan
6 related to malaria. The German soldiers who have
7 been deployed to Afghanistan have also seen cases
8 of malaria among their troops.

9 They have some very interesting lab
10 capabilities with the Microbiology Institute in
11 Munich. The Director is Colonel Dr. Finke. Dr.
12 Finke prior to the reunification of Germany was
13 actually head of the BW Program for East Germany
14 so he has a tremendous background in plague and in
15 a number of other infectious diseases and he has
16 been able to bring that capability to this
17 laboratory. So they also have been looking at
18 hantavirus in Europe which is a concern for us.
19 This is that part of Bavaria that banks up against
20 the Czech border. Those of you who have been
21 stationed in Germany know that we have our
22 training area in these areas, Grafenwoehr,

1 Hohenfels, the predominant training area that's
2 left in Germany for American forces. They also
3 have other types of diseases they've looked at. I
4 won't belabor these, but these are issues they've
5 been dealing with in recent years.

6 Let me move on and talk in particular
7 about flu very quickly. These are documents that
8 many of you are aware of from the White House, the
9 National Strategy. Stemming from that was the
10 National Implementation Plan which had a total of
11 323 tasks that were given to the cabinet-level
12 secretaries. Of those 323 tasks, 114 of those
13 came to the Department of Defense. So I think
14 that shows just how important the Department of
15 Defense is to national strategic-level pandemic
16 influenza planning. Of those 114 tasks, six of
17 those relate to the work of GEIS. So I show this
18 as chapter and verse as to why GEIS is involved,
19 not just in helping the military prepare for those
20 issues that a pandemic will affect us by, but
21 nationally and internationally.

22 We do three types of lab-based

1 surveillance for flu, and I am going to go through
2 each of these very quickly. Around the world
3 there is sentinel surveillance that occurs. We
4 are currently working collecting isolates from 56
5 different countries, 273 sites in 56 different
6 countries, and I can tell you that I think that's
7 more than any other entity on the face of the
8 planet right now. Those countries that are in red
9 are countries where as far as we know, DOD GEIS is
10 the only collector of flu isolates. Of course, it
11 stands to reason this is important for the making
12 of the vaccine. If you look at the bottom of the
13 slide, in the last 6 years, these are some of the
14 strains that have been isolated, that have been
15 captured by the GEIS network which have then been
16 chosen for inclusion in the trivalent vaccine
17 which I hope everyone in this room has received.
18 So you are a beneficiary of the GEIS network
19 whether you knew it or not. I think this kind of
20 like winning Academy Awards, when your strain gets
21 chosen. So that is sentinel surveillance.

22 We also do special population-based

1 surveillance at the basic training sites. In
2 addition, Admiral Smith, you may have heard, we
3 now are putting PCR machines aboard some of the
4 ships that are part of these three different
5 fleets. We need to have these population center
6 surveillance, we need to know what's going on, and
7 we need good answers. You can imagine perhaps a
8 ship pulling into Shanghai, there is an
9 opportunity for the sailors and officers to go
10 ashore, they come back onboard, they steam back
11 out of port, a week or two later they all become
12 sick. We need an ability to know what it is. In
13 addition, in our basic training sites, a great
14 place for transmission of disease, and you've been
15 briefed on this before.

16 We have a unique program that we're
17 doing right now in EUCOM with the EUCOM Surgeon
18 and all the medical leadership there. Every
19 clinic in Central Europe is now participating in
20 laboratory base surveillance. They do ILI
21 surveillance, but in addition isolates are sent to
22 the Primary Reference Lab which is now at

1 Landstuhl, and they've been publishing some really
2 reports. And you say so why is this important?
3 Of course, Europe is the common pathway for people
4 coming from Asia, from Africa, there's a lot of
5 commerce that goes through here. All of our
6 forces returning from downrange generally will
7 pass through bases that are in Europe either for
8 medical care or just as part of transport. This
9 is critical. A couple of things that were
10 different in terms of seasonal flu epidemiology
11 this year, the predominant strain of flu in the
12 States was an H1 whereas in Europe it was an H3.
13 I may have this backwards, but also the peak of
14 flu was a month later in Europe than it was in the
15 states, so a very different epidemiology as well.

16 Just to talk quickly about some of our
17 work internationally, the lab on Bangkok does a
18 lot of different types of work, but I'll just talk
19 about flu. They have work that's going on
20 regionally in Nepal and Thailand, but in addition
21 we have a new effort going on in Cebu City in the
22 Philippines. I had a chance to meet the military

1 hospital commander that's helping us with that.
2 There's been a big question as to why have we not
3 seen bird flu yet in the Philippines. The
4 geography is right, the demography, everything is
5 there to match the other countries that have been
6 affected. Maybe we haven't been looking hard
7 enough. In addition, we're building up a BSL-3
8 lab there for their use as well.

9 In Indonesia, again working regionally,
10 we may well be also moving to an effort that will
11 be in Papua New Guinea this year. This lab has
12 been very unique in that it's participated in
13 establishing a flu network, both syndromic
14 surveillance and lab-based surveillance for the
15 government of Indonesia which is no small feat.
16 They have been involved with all of the
17 international responses to a whole variety of
18 clusters one of which I'll tell you about quickly.
19 This was exactly a year ago. In the northern part
20 of Sumatra, not so far as Banda Aceh where the
21 tsunami was but a part of the same island, there
22 was a family that got together and they had a

1 meal. They like most families in this area they
2 all slept in this room on the right after the
3 meal. There was one family member who was sick.
4 This was a 37-year-old female. She had been
5 coughing and had been febrile. In fact, she died
6 a few days after this meeting as the family
7 gathering is the vertical line here. But from her
8 illness, and we never quite knew what that was for
9 sure, there were these additional cases and all of
10 them died. These were all family members. All of
11 them died of H5N1 confirmed except for a 25-year-
12 old brother.

13 This was obviously of international
14 concern because when we went to look, and this was
15 a team effort with WHO, CDC, and members of the
16 Navy lab, at the chickens and the pigs, they were
17 not able to isolate H5N1. This appear for all
18 intents and purposes to be true human-to-human
19 transmission. Fortunately it was not sustained.
20 I'll throw this out as a quick tidbit. Each of
21 these relatives were blood relatives and so there
22 seems to be some indication, and this is a good

1 lead for future research, that there may be
2 certain genetic elements to who gets sick and how
3 severe their illness is.

4 Let's go to Peru quickly. There is a
5 lot of work that we're doing in South America. We
6 were invited in fact to a special meeting on
7 behalf of NIH from Dr. Miller, a member of your
8 Board, thank you again, Mark. We went to Buenos
9 Aires, I've got staff members that are in Lima
10 right now, working very much in the Andean Ridge
11 countries helping them to build their own
12 capacity, but in addition collecting isolates.

13 Beyond that, a new effort is in fact
14 working with Billy Koresh with the Wildlife
15 Conservancy doing bird surveillance, and we think
16 this is an important adjunct as it relates to
17 determining just when H5N1 would appear in the
18 Americas, but in addition looking for other new
19 novel influenza viruses.

20 In Kenya we have right now what is the
21 largest influenza surveillance effort in sub-
22 Saharan Africa, and those circles show the sites

1 where we're doing that surveillance. We intend in
2 the coming months to expand to Uganda and to
3 Cameroon. In fact, in the month of June I'll be
4 making a trip to both of those countries to
5 confirm the preparation of the field sites, and
6 that's what that says.

7 We're also looking to go to Nigeria. As
8 many of you know, we have an extensive DOD HIV
9 presence in many countries as far as PETFAR and
10 DEHAP. In some of our discussions with the
11 leadership of the HIV work, we have talked about
12 how we can make a marginal increased investment
13 upon the infrastructure they already have in place
14 for HIV work to enable us to do lab-based
15 surveillance in many of these countries, and
16 Nigeria may be a good example of where we can do
17 just that.

18 I'm coming to the end here. A real
19 workhorse for us is the Cairo lab in Egypt working
20 in many countries. They have the unique position
21 of being the Eastern Mediterranean Regional office
22 for WHO for influenza. So when you hear about flu

1 in Turkey or the Stans or in Egypt, any of those
2 EMROC related countries, the Cairo lab is the one
3 that has done the diagnostic work, period. They
4 are the ones who have been invited, they are the
5 ones who fielded the team to actually do the
6 investigation.

7 This is a slide that shows all of the
8 different types of work that's going on as part of
9 the NAMRU-3 work in this region. They are the
10 ones that most recently were the ones to detect
11 and confirm H5N1 in poultry in Ghana, and that was
12 something that was just in the last month.

13 I know I've got you feeding out of a
14 fire hydrant here. Forgive me, but I don't want
15 to bust the time. In this next year they'll be
16 collecting even more specimens. It's becoming
17 quite an industry for them. Just to highlight
18 this thing at the bottom, we have an ongoing
19 collaboration with Global Health with Dr. Steve
20 Blount at the Centers for Disease Control. We
21 will be meeting with them in person in another
22 month as well. They're going to give us a tour of

1 their facility and an update, but we talk to them
2 on the phone on a regular basis. They have a
3 parallel program called Global Disease Detection
4 which looks a lot like GEIS, but it's CDC. We are
5 collaborating with them. In fact, they have an
6 individual who is now assigned to the Cairo lab to
7 help the CDC start to build some of their efforts
8 in that country and in that region.

9 I think I will go past this. That just
10 talks about other isolates and other work that is
11 occurring along the Nile. This map shows some of
12 the distribution of these H5N1 cases as of 16 May,
13 and you can see that later as well.

14 Certainly you can contact me. If you
15 again want a copy of the Annual Report, please let
16 me know that or let Colonel Gibson know that and
17 we'll make sure that you receive that. I'll give
18 you my card for that matter. Thank you.

19 (Applause)

20 DR. POLAND: Thank you, Loren. Any
21 questions or comments? By the way, for those of
22 you on the right side behind this pillar, I can't

1 see you. So if you have questions or comments,
2 come. Bob, did you want to say something?

3 SPEAKER: Loren, are the French or
4 German militaries doing any influenza surveillance
5 in their deployed forces?

6 COLONEL ERICKSON: At the present time,
7 the Germans are not doing it in their deployed
8 forces. The French told me that they in fact are
9 looking at this, but that's in collaboration with
10 the Pasteur Institute. They have a number of
11 institutional agreements with different parts of
12 the Pasteur and so the Pasteur is really the arm
13 that helps them with that.

14 DR. OXMAN: Loren, are the various labs
15 using a common set of primers and probes for the
16 PCR characterization of flu?

17 COLONEL ERICKSON: The short answer is
18 yes. We have been seeking to build
19 standardization into what we do. That's not to
20 say that there aren't some of the labs that are on
21 the front end developing some of their own probes
22 as well as they think that they're dealing with

1 new strains because hey do have the ability in
2 many of these labs to do their own virology work,
3 higher-level diagnostics. But we work closely
4 with the CDC to make sure that we're matching what
5 the LRN deems to be the appropriate primers.

6 DR. MILLER: Colonel Erickson, given all
7 the problems these days with the politics of
8 sharing viral isolates especially from Southeast
9 Asia and Indonesia, have you had any problems with
10 the AFRIM's (?) labs or any of the other military
11 collected viruses to be shared on a global basis?
12 Have the Indonesians, for example, created any
13 type of barriers for the sharing of any isolates
14 collected through the military?

15 COLONEL ERICKSON: The only place that
16 we've had any issues right now have been Jakarta.
17 We respect the host nations and those who set
18 these kinds of limits. Of course, the
19 international health regulations that WHO is
20 promulgating call for the sharing of isolates. My
21 sense is this may be a temporary issue. It
22 certainly hasn't stopped our progress, but it sort

1 of underscores the importance of having a full
2 functioning BSL-3 in country so that if the
3 isolates can't leave, at least we're able to work
4 with the virus locally. But you're right, that's
5 a burgeoning issue.

6 DR. HALPERIN: It was really incredibly
7 impressive. Could you give us an idea of about
8 how many people you have in that building and
9 around the world and whether you have a training
10 program and whether you have graduates going other
11 places, or do they mainly stay with you?

12 COLONEL ERICKSON: At my immediate reach
13 I've got about 15 people at the GEIS headquarters.
14 So Bill, when you come visit me you won't see a
15 whole lot of people, but very senior people who
16 are managing the network. Across the network
17 we're talking about literally thousands of
18 individuals primarily from the Army, Navy, and Air
19 Force, folks who are in uniform, DOD civilians,
20 contractors as well, and then a host of host
21 national nationals. There is some training but
22 not a formal requirement, there is not a set

1 training requirement for people to belong to GEIS.
2 There are training programs for those who are
3 working in the labs, training for those who are
4 doing the epi, et cetera.

5 SPEAKER: Are there any plans afoot to
6 try to interact with the Chinese military to go
7 onto the network?

8 COLONEL ERICKSON: We've had a number of
9 good contacts with them. The Air Force component
10 of Pacific Command has in fact had some good
11 interactions with the People's Republic of China
12 as it relates to an exchange for training for
13 response to pandemic flu. In addition, I was a
14 delegate at the Asia Pacific Military Medical
15 Conference in Manila and I actually had contact
16 with a number of senior PRC representatives and we
17 talked in general terms. There is nothing that's
18 on the calendar right now, but I perceive that
19 that is certainly a possibility for the future.

20 DR. POLAND: Let me ask people to state
21 their names too when they're asking a question.
22 Other comments? We have time.

1 COLONEL GIBSON: I have a couple of
2 comments. The first one has to do with the those
3 reports that were available and provided to
4 everybody who was at the last meeting. I do have
5 additional copies, so thank you, Loren, for
6 providing those. They're available if you want.
7 I will resend or send an initial to anybody
8 attending the meeting who wants one.

9 The other comment is about the
10 communications center there. I had an opportunity
11 to look at it with Dr. Poland it's one of those
12 gee-whiz, wow things. It's very state-of-the-art.
13 My question to you is, Loren, at what point would
14 you activate that COM Center? In other words, the
15 size of the outbreak that would require the
16 activation of the COM Center?

17 COLONEL ERICKSON: This is something
18 that we're dealing with right now because in the
19 coming months we're going to be practicing with
20 the technology and then we'll be doing some
21 notional exercises. My sense is when we reach the
22 point where we have an outbreak, and it could be

1 any emerging infectious disease, but flu is the
2 one for which it is funded, at that point where
3 we're in a situation where we need to have
4 situational awareness 24/7, that's really the
5 point at which that COM Center would have full-
6 time staffing, and we'll have surge capability to
7 make sure we have staff officers. We've had some
8 discussion with NORTHCOM and with some other
9 partners as to how we would do that, but quite
10 frankly that's an area that is being developed
11 exactly how we're going to put that on paper so
12 that it's a document that will look past my tenure
13 and other staff members'.

14 COLONEL GIBSON: That always seems to be
15 a critical point. We've had as you know outbreaks
16 of not necessarily emerging infections, but
17 outbreaks within the services and occasionally in
18 a joint area and ensuring that we have good
19 communication even for the little outbreaks, 5 to
20 10 people, et cetera, that are unusual, it would
21 be very, very helpful in my view to get that
22 codified.

1 COLONEL ERICKSON: Certainly. And if I
2 can just make mention, every other week we have a
3 teleconference that reaches around the world
4 involving members of the military. It's called
5 the EPI Chiefs' Meeting. In fact, at that point,
6 as you know, we discuss those outbreaks. They may
7 be food-borne, they may be zoonotic, the whole
8 range of issues, tuberculosis aboard an aircraft
9 carrier. You've heard these discussions.

10 In addition, we put things on our
11 website. We have a LISTSERV that we push. If you
12 would want to be included in that, again let me
13 know. It provides a certain level of situational
14 awareness that is at this level, and then if we
15 get to the crisis, that's when we staff that
16 center more full-time around the clock.

17 DR. GARNER: COM Centers seem to be
18 spring up. Certainly CDC has established one. I
19 just wonder about the relationship of this COM
20 Center to that COM Center and whether you actually
21 have cross-fertilization so that they're talking
22 on the same page.

1 COLONEL ERICKSON: Certainly. The EOC
2 at the CDC, I have had a chance to visit it. It
3 looks in an eerie way what CENTCOM has set up. In
4 fact, the folks at CDC that set it up are retired
5 military guys, if you know some of these folks.
6 We do have those connections, we so share
7 information with them. Their mission is a little
8 different in that theirs is truly an EOC, an
9 Operations Center, where they'll be controlling
10 people who are deploying and going places. We
11 don't have that authority at GEIS. We'll be
12 managing information, packing information, doing
13 IPI, plotting things on maps, pushing those maps
14 out to senior leaders, et cetera, updating
15 reports, drawing reports from the field. But we
16 don't have the authority to manage people who are
17 in the field and so there's a difference between
18 the CDC's EOC and what we're calling our
19 Communications Center.

20 DR. PARKINSON: Thank you, Loren, and
21 great work for all the folks at GEIS. The Rift
22 Valley fever case study of having an early warning

1 system, a predictive model that suggests we're
2 going to have a hot spot, to me is the promise of
3 a GEIS capability, not just GEIS but other people
4 in the surveillance network.

5 The other thing that's happening now,
6 there is a movement afoot politically and
7 legislatively for something called One Medicine
8 which really is the notion of veterinary medicine
9 and human medicine have been separated far too
10 long. So I guess the question I have is what is
11 your thinking with the partners that you have
12 developed around systematic standardized animal-
13 or vector-borne surveillance of animals as opposed
14 to human cases, and particularly in light of what
15 you consider to be the global warming regardless
16 of etiology of what's going on? Is there a way to
17 standardize this in any regular way? Is there any
18 dialogue on that?

19 COLONEL ERICKSON: I'll have to slip you
20 a \$20 bill later, Mike, because I appreciate you
21 giving me this plug. Three of the members of my
22 immediate staff are veterinarians, DVM DRPH, DVM

1 PHD, et cetera. I've mentioned Billy Koresh with
2 the Wildlife Conservancy, one of our people we
3 brought over from USDA. We are broadening all of
4 our contacts with the animal medicine community
5 with OIE and others. I think you're exactly
6 right. In fact, this was one of our goals for
7 2007 that for the military we would find a way to
8 leverage all of those Veterinary Corps officers
9 who are currently doing food inspection and animal
10 work in DOD to make them a very effective part of
11 the DOD GEIS network especially as it would relate
12 to zoonotic diseases.

13 I think you're exactly right that it may
14 very well be that within animal populations that
15 that would be our early warning. That would be
16 the first indication that there's a problem. So
17 we are working very hard. I have contacts with
18 USAID in that area as well that we're hoping to
19 push in the coming days.

20 DR. OXMAN: Just extending Colonel
21 Gibson's question a little bit, you are now
22 deploying PCR equipment on carriers I presume or

1 fleet assets. The question is, if they uncover
2 the beginning of a small outbreak of H5 or H7
3 influenza, how quickly and what's the route you're
4 working on that, the route by which that
5 information is going to be moved upward and
6 outward?

7 COLONEL ERICKSON: Just so you know,
8 we're talking about LightCycler machines, standard
9 PCR methodologies. Not every ship would have
10 them, but representative ships in each of the
11 fleets. Upon a positive we would alert people
12 like Admiral Smith, leadership within the services
13 as well. The response becomes more formally the
14 responsibility of the Army, Navy, or Air Force,
15 whoever has proponency and responsibility there.
16 GEIS can come in behind them with resources, with
17 expertise, we certainly can give advice if asked.
18 The formal response though would belong to the
19 service as that would work.

20 But what comes to mind in terms of a
21 shipboard outbreak, it really would take us back
22 to the etymology of that word quarantine. We may

1 well find ourselves quarantining back in the
2 harbor some of these vessels, or at least perhaps
3 sending in teams that would more fully
4 characterize what's going on prior to letting
5 those ships come into port.

6 DR. HALPERIN: Dissemination of
7 information is obviously part of surveillance. I
8 maybe naively but probably confidently think that
9 the "Morbidity-Mortality Weekly Report" is the
10 place for quick week or two dissemination. Are
11 you using that as a dissemination mechanism or do
12 you have others? What's your thinking about how
13 to get the information out broadly?

14 COLONEL ERICKSON: Bill, there's a level
15 at which some things reach the publishability.
16 For instance, the malaria in the construction
17 units that were in Afghanistan, that was published
18 in MMWR, and there have similar types of things.
19 Some things are below that level where they're not
20 quite ready for primetime. We know there's an
21 issue, we're discussing it with those who are
22 responding, we're trying to sharpen what that

1 response is making sure they have the assets and
2 the techniques that are brought to bare, but that
3 is just one of a number of things. Quite frankly,
4 even MMWR, as important as it is as an historical
5 document, it's too slow now for the types of
6 alerts we need to put out.

7 DR. POLAND: Thank you, Colonel
8 Erickson. By the way, I was at the American
9 Veterinary Medical Association and there's a
10 segment, sort of a movement starting called One
11 Medicine, apropos Mike's comment of the divide
12 that's always existed between veterinary and human
13 medicine and the price we've paid for that divide.

14 COLONEL ERICKSON: Could I just say that
15 the big meeting in D.C. that's going to be in
16 July, a few different members of my staff
17 including myself will be speaking to that One
18 Medicine theme. So we've already been put on
19 their agenda. Thank you.

20 (Applause)

21 DR. POLAND: Thank you. As we're
22 getting ready for the next talk, I did want to

1 introduce another distinguished visitor with us
2 today and that's Vice Admiral Donald Arthur,
3 Surgeon General of the Navy to my right who just
4 joined us a moment ago. Welcome.

5 Our next speaker is Lieutenant Colonel
6 Thomas Greig. He is Program Director -- I'm
7 sorry, that's right. We were going to switch, and
8 now you're here. Will be Colonel Tony Carter from
9 the Force Health Protection and Readiness Office
10 at Health Affairs. Dr. Carter will brief us on
11 the initiative DOD has taken to address traumatic
12 brain injury, prevention, recognition, and
13 treatment. The Board will recall that we
14 addressed this issue in some depth last year and
15 provided written recommendations to DOD. A copy
16 of those recommendations are under Tab 4 along
17 with Colonel Carter's slides which were just
18 passed out, and I think we're asking people to
19 share those. Dr. Carter, the floors is yours.

20 COLONEL CARTER: Just a minute, sir,
21 actually I would have been happy to yield to the
22 Lieutenant Colonel. I apologize. I got stopped

1 on the way over here. I was a little bit late and
2 as it turned out I wasn't too late, so thank you.

3 I'm here to talk about traumatic brain
4 injury and what I want to do is to talk to you
5 about the results of what we have done since the
6 Defense Health Board letter came out last year.

7 These were the recommendations of the
8 Defense Health Board or the Armed Forces
9 Epidemiological Board, and you have a copy of
10 those. Just briefly, what I want to do is just
11 take this slide and talk about some of the things
12 that we have done in response to that.

13 One of the recommendations was for
14 improved personal protective equipment and last
15 year a blast DOD directive came out which talked
16 to the issues of how to protect our soldiers and
17 Airmen and Marines from all injuries that were
18 associated with blasts. Of course, as you know,
19 more than 60-percent of the injuries that we now
20 get in theater are secondary to blast, mostly
21 IEDs. So this blast DODD was sent down to the
22 level of MRMC who is now the executive agent for

1 that DODD and who is now in charge of organizing
2 all of the research secondary to blast injuries
3 and who is working with other organizations, with
4 DOD, to work on personal protective equipment
5 improvement.

6 On that same course, the JTAPIC was a
7 joint program that was designed to take a look at
8 the personal protective equipment that we had in
9 the field, and that included body armor, that
10 included helmets and so on, and then analyze that
11 equipment from the materiel standpoint and in
12 addition look at the intelligence about the
13 incident, what the size of the blast was, where
14 people were oriented to the blast, whether they
15 were in a vehicle, if they were in a vehicle what
16 the model of the vehicle was, what level of up-
17 armoring it had, and then correlate those two bits
18 of information, the materiel information and the
19 intelligence information about the blast with the
20 injury information to figure out whether or not
21 the personal protective equipment was effective
22 and also to inform design of new personal

1 protective equipment.

2 It is also supposed to inform commanders
3 in the field about tactics and procedures to
4 better protect their soldiers in the field with
5 regard to when they should use various pieces of
6 personal protective equipment. So those are the
7 two initiatives that DOD is using to look at
8 improved personal protective equipment.

9 Standard methods of acute in-the-field
10 concussion TBI assessment. In August of last year
11 the CENTCOM Surgeon implemented through the Joint
12 Theater Trauma System a Clinical Practice
13 Guideline in the field that, number one, gave the
14 field an instrument to the MACE or Military Acute
15 Concussion Evaluation tool and also gave them a
16 Clinical Practice Guideline within which to use
17 that tool. What that was intended to do was to
18 give the field a device, a tool, and a guideline
19 that they could use to decide what it was, whether
20 or not someone who was exposed to a potential TBI
21 causing event such as a blast, whether in fact
22 they suffered a TBI, and if they did, then it gave

1 them a tool to use for how to treat that
2 individual, whether that person should simply be
3 given rest or whether that person should be
4 further evacuated for evaluation at a theater
5 hospital level or whether this person should be
6 evacuated farther back. So for standardized
7 methods for acute in-the-field assessment, we did
8 implement this tool.

9 The difficulties with some of the acute
10 disposition assessment was the same difficulty
11 that we're having in the field altogether which is
12 documentation, and for disposition assessment and
13 documentation, the disposition assessment was
14 covered in the Clinical Practice Guideline what
15 you should do with these soldiers or Marines who
16 were affected by a blast. The documentation has
17 been somewhat problematic because the difficulty
18 has been for negative evaluations, these are not
19 recorded, and the positive evaluations are only
20 spottily recorded. They do have a tool, but they
21 do not have a means sometimes of effectively
22 recording that information in the medical record.

1 Sometimes it is recorded in paper format, there is
2 no electronic method right now of doing so, and so
3 the documentation of a positive TBI with this tool
4 is a little bit spotty, Captain Sammons from the
5 Navy just came back from theater and confirmed
6 that it is somewhat spotty.

7 We are trying to work with IMIT to
8 improve that and there have been various efforts
9 in theater to improve education and documentation
10 of that. So it's improving, but there is still a
11 lot of work to be done in that regard.

12 Systematic follow-up assessment and
13 medical management of TBI is still a work in
14 progress and part of that is because of the issues
15 with documentation, making sure that we identify
16 clearly people who have suffered and TBI and
17 continue to follow them up. Once they are
18 identified and it's clear in the medical record, I
19 think we have a good system of making sure that
20 people who had TBI are assessed and reassessed and
21 are given the appropriate medical treatment,
22 cognitive therapy, et cetera, to do what we can to

1 improve their condition.

2 Education of service members and
3 families with commanders. This is also a work in
4 progress. There was an Army ALARACT, All Army
5 Activities, message sent out in late-summer of
6 last year, and about the same time a Marine Corps
7 message was sent out to all Marines talking about
8 traumatic brain injury, talking about the
9 implications of traumatic brain injury for service
10 member performance in the field, alerting them
11 that people who suffer traumatic brain injury even
12 though it was somewhat subtle, they may not
13 obviously have had an injury, may be at risk if
14 you put them back out in dangerous situations, and
15 may also put their fellows at risk. So that
16 educational part was done and it's a continual
17 reeducation process as new soldiers and Marines go
18 out.

19 The DOD/VA Education Panel has been
20 convened under the leadership of the DVBIC,
21 Defense Veterans Brain Injury Center, and they are
22 charged with coming up with a body of educational

1 literature for both the active-duty side and
2 leadership and also for families so that we can
3 educate families on what to expect if a diagnosis
4 of TBI is made already and what may be going on if
5 their family members are acting strangely, they
6 may wish to come in to be evaluated for signs and
7 symptoms of TBI, so that is ongoing.

8 Continue some form of postdeployment
9 screening. As you all know, there have been
10 sporadic individual efforts within the Department
11 of Defense to do postdeployment screening most
12 notably at Fort Carson, Colorado, and at Camp
13 Lejeune with the Marine Corps. These efforts have
14 come up with up to an 18- to 20-percent incidence
15 of people who have suffered a TBI while deployed
16 in theater and about 40-percent of those people
17 are still symptomatic at the time of that screen.
18 This has caused some concern, and Dr.
19 Winkenwerder, at Health Affairs before he departed
20 said that we need to do screening for all people
21 who are returning. What he said in March was that
22 we will begin screening in the PDHA, the

1 postdeployment health assessment, the PDHRA,
2 postdeployment health reassessment, and we will
3 also convert this tool that we are using for the
4 PHA or the periodic health assessment for those
5 people who have not deployed since the last time
6 they were assessed. This was mandated to start in
7 June of this year. I think that will slip a
8 little bit because we're having some difficulties
9 getting that inserted into the electronic format
10 that we need for the PDHA and PDHRA, and
11 eventually it will be included in the periodic
12 health assessment.

13 At the same time, the VA announced a
14 screening program and on April 13 they came out
15 with a VA directive saying that all veterans who
16 come to VA centers to be seen will be screened if
17 they had not already been screened by the VA. At
18 a Joint Executive Council meeting, the principals
19 at the VA and the DOD agreed that that screening
20 methodology would be the same for both DOD and VA.
21 It's kind of funny, originally the VA got their
22 screening tool from the DVBIC so now we are using

1 the VA's tool that came from the DVBIC in order to
2 screen our own soldiers, sailors, and Marines, who
3 have returned from theater and who are also
4 getting the periodic health assessment.

5 One of the other recommendations of the
6 Board was to do additional TBI research, and we
7 will get into that a little bit in the next slide.

8 Additional actions on the part of the
9 Department of Defense. In September 2006 the Navy
10 hosted a TBI Summit. In November 2006, the DVBIC
11 hosted a mile DBI assessment because again one of
12 the acute issues was not so much treatment of
13 people with severe or moderate TBI, usually the
14 diagnosis and the recognition of those individuals
15 was fairly clear and not controversial and there
16 was an established treatment regimen for those
17 group of people. What we wanted to do was
18 concentrate on mild TBI because those were the
19 diagnoses or the injuries that were being missed
20 most often and so this TBI Field Assessment
21 Conference was held and essentially confirmed that
22 the tool, the military acute concussion evaluation

1 tool and the Clinical Practice Guideline that was
2 previously inserted in theater was valid. There
3 were some tweaks of the Clinical Practice
4 Guideline and a little more explicit guidances
5 about what to do in what case, but essentially it
6 confirmed that the August 2006 Clinical Practice
7 Guideline was very useful and valid.

8 In January 2007 the Surgeon General
9 chartered a TBI Task Force with a result that was
10 supposed to occur this month, and as a matter of
11 fact, it did come out. As I mentioned before, VA
12 announced screenings for TBI, and then in March,
13 Health Affairs mandated a screen and comprehensive
14 TBI program. In March/April 2007, the first DOD
15 high-level meetings with regard to a comprehensive
16 program to address TBI within DOD was held. And
17 in May right now as we speak, there is a DOD/VA
18 conference going on that addresses the
19 comprehensive plan for TBI and the lead for that
20 is Admiral Arthur.

21 There are seven areas that Admiral
22 Arthur tasked this group to address. The first

1 was the definition, and that was somewhat
2 controversial. We had a meeting of the Definition
3 Group early on because what we wanted to do was to
4 supply the conference as a whole with a consensus
5 definition of TBI. The reason why TBI was
6 somewhat controversial, the definition was
7 somewhat controversial, was because some people
8 were seeing what they felt was a different kind of
9 injury with blast than was normally seen the
10 normal kinds of impact TBIs. As a matter of fact,
11 on the opening day of the conference yesterday, we
12 had an extensive discussion of that where some
13 people said, no, the people that we see with blast
14 injuries are just like the people who we have
15 always seen with traumatic brain injury secondary
16 to concussion, and others said we think that we're
17 seeing a syndrome that is somewhat different, so
18 that's a matter of controversy that we hope to
19 resolve somewhat at this conference. I'm not sure
20 we will come out with a consensus definition that
21 will be satisfactory to everyone, but we will come
22 out with a consensus definition, taxonomy, of

1 traumatic brain injury.

2 The second group was testing an
3 evaluation, and the issue there is what tools do
4 we use to make sure that people have or don't have
5 TBI. That group is headed by the Defense Veterans
6 Brain Injury Center and we expect that they will
7 come up with good tools and also imaging because,
8 for example, one of the things that you may have
9 read recently out of Fort Carson is that they're
10 going to bring in a nuclear medicine scan to scan
11 all those people who are positive for TBI in their
12 screening mechanism and the question there is is
13 this something that is valid, is this something
14 that's going to be useful in the diagnosis and
15 treatment and prognosis of those with TBI. That
16 is kind of uncertain, so hopefully that will come
17 out of this meeting.

18 Disability and long-term care was
19 another topic. The VA are the experts for
20 disability evaluation and they have great concerns
21 that if we change the definition of TBI then it
22 will have a great impact on their long-term

1 requirements in terms of funding for disability
2 and TBI. The issue is that if somebody has a
3 functional deficit as a result of something that
4 they suffered in battle, I'm not sure that it
5 really matters what the long-term consequences are
6 for the VA in terms of disability, we just have to
7 deal with that. But the disability also depends a
8 lot on the definition that depends on coding, and
9 so they are trying to work with the coding and
10 work with -- program and policy at Health Affairs
11 on trying to present a coding system to the --
12 Group that will allow us to follow these people
13 out long-term.

14 Long-term care is an issue for those
15 people with severe TBI, what are the requirements,
16 and we're addressing that too.

17 The Education and Training Program is an
18 expansion of what the DVBIC is doing, and what we
19 expect out of this group is that they will give
20 guidance to the DVBIC/VA group on the educational
21 requirements, the military training requirements
22 that have to be done at all levels to make sure

1 that people are sensitive to the impact of TBI and
2 also know how to evaluate it and know what the
3 risk factors are so that when those risk factors
4 occur people are evaluated for TBI.

5 Then there were two research groups.
6 One had to deal with blast injury and blast
7 physics having to do with perhaps finding some
8 mechanism to detect the level of blast so that we
9 could correlate the level of blast or the level of
10 overpressure with an injury and perhaps even use
11 that as a tool for people in theater to say we
12 need to evaluate you for potential TBI because
13 this indicator on your chest or your helmet is
14 yellow. The other one was an all others for
15 clinical research on TBI and long-term research.

16 We also came up later with a Strategic
17 Communication Group because one of the issues in
18 how both DOD and VA present to the outside world,
19 how do we present a unified message that's not at
20 cross-purposes. It's bad if DOD says something
21 and then VA says something completely different,
22 and so the Strategic Communication Group is

1 supposed to come up with what the story is going
2 to be or how we share so that we come up with a
3 cohesive and coherent story.

4 Then the expectation for this conference
5 is an actionable plan for DOD/VA management of
6 service members with TBI, and I think that's very
7 important. We had not before had a cohesive plan
8 and the services have done great work in coming up
9 with plans or constructs. What we have to do is
10 to have one cohesive plan in conjunction with the
11 VA so that we speak with one voice.

12 In May, this month, I hope to develop a
13 HA Cell. This is a huge project I think and it's
14 not a part-time job. I hope to have an HA Cell
15 for management of this PTSD/TBI Programs and
16 Policy. Sometime in this month or next we hope to
17 have a Comprehensive Plan that comes out of this
18 conference approved by Health Affairs and the DOD
19 leadership and begin implementing that plan. We
20 need to have a spend plan because the Congress is
21 shoving money our way and the problem is going to
22 be how do we spend this. I think something in the

1 range of \$931 million, \$600 million in O&M and
2 \$331 million RDT&E is coming our way and we have
3 to make sure that we spend it wisely or give it to
4 the VA.

5 Then in June 2007 we're having a DOD/VA
6 conference that includes civilian experts and
7 advocacy groups so that we can tell them what
8 we're doing and then get feedback from them about
9 what they think we should do. Then with time,
10 other groups such as Rand and IOM are producing
11 programs that will inform the program as we
12 implement it. That's all I have. Any questions?

13 (Applause)

14 DR. POLAND: Thank you very much. A
15 couple of comments. One would be that the Board
16 would have great interest in having perhaps
17 selective members participate in the last
18 conference that you mentioned.

19 COLONEL CARTER: Yes, sir.

20 DR. POLAND: Then what I'd like to do to
21 organize our discussion is first to ask Admiral
22 Arthur for any comments. He is the spokesperson

1 for the Department on this issue, and then ask
2 Drs. Lednar and Lauder to make comments because
3 they were so intimately involved with the shaping
4 of the Board's recommendations, particularly
5 helping the Board, this is a huge area, juxtapose
6 what our recommendations were with what we have
7 seen here as actionable items and are you happy
8 with the level of response and the integration of
9 those recommendations and items. First, Admiral
10 Arthur?

11 VICE ADMIRAL ARTHUR: Thank you. I
12 think there really is growing recognition that
13 there is a very different entity in traumatic
14 brain injury from the strike injury that we have
15 from motor vehicle accidents, domestic violence,
16 football, soccer, hockey, where you have a coup-
17 contrecoup type of injury. The injury that we're
18 seeing in Iraq with IEDs seems to be a blast, a
19 concussive injury where it doesn't necessary
20 affect one point on the skull with a strike
21 injury, it rather shakes the brain in some way and
22 the differences in densities between white matter,

1 gray matter, and between other parts of the brain
2 seem to have a vibratory effect that has a more
3 global impact than the coup-contrecoup striking
4 injury. And we're seeing some of the rather
5 subtle signs which is one of the reasons that I've
6 suggested a symptomatic taxonomy. That is, we say
7 mild traumatic brain injury as manifest by memory
8 deficit, cognitive deficit, emotional liability,
9 or something like that so that we can, A, quantify
10 exactly what it is we're talking about, and two,
11 we can follow that symptomatology through
12 treatment. We don't have that kind of a taxonomy
13 now, and I think that that's needed.

14 I think there are also subtle signs that
15 are not obvious in a strike injury. There are
16 also multiple IED exposures, so this creates a
17 complicated environment. Very often it is the
18 member who will complain to us, it'll be the
19 family member, it will be the spouse who will say
20 he can't make a decision about a menu item or he
21 gets lost in the supermarket. Somebody who gets
22 lost in a supermarket but heretofore was able to

1 carry an automatic weapon and lead other men into
2 combat, it seems abnormal, and we don't see that
3 kind of an injury with the striking kind of brain
4 injury.

5 This is also complicated by the fact
6 that people don't come back with just traumatic
7 brain injury. They come back with TBI,
8 posttraumatic stress. They may have narcotics
9 that they're taking for pain due to other
10 injuries. They're going to add alcohol on top of
11 that. They're going to have other life stressors.
12 So how do we tease out what is traumatic brain
13 injury and what is PTSD? I think we may be coming
14 to a consensus that it may not matter a lot, what
15 matters is what symptomatology the service members
16 are exhibiting and what common treatment
17 algorithms can be applied whether it's PTSD,
18 whether it's depression, whether it's anxiety
19 which are comorbid factors. So we're trying to
20 get to the definition and we're trying to get to
21 common treatment pathways.

22 One thing that Colonel Carter mentioned

1 is the indicator. I have asked industry to come
2 up with a blast indicator, something the
3 individual can wear, and this indicator would tell
4 us the intensity, the duration, the physical
5 characteristics of the blast exposure, and allow
6 us to see what the exposure has been. I think
7 that is very important to allow us to correlate
8 exposure to symptomatology. This device should be
9 able to do multiple exposures so you can see over
10 time what the exposures have been and characterize
11 the exposures. We know that individuals can be in
12 a motor vehicle accident, they can have a blast
13 that takes their motor vehicle and has a
14 concussive effective. The motor vehicle then
15 comes to a sudden effect and it's got a strike
16 effect perhaps on the helmet. So there are
17 multiple factors that intervene and we have to
18 have a way to allow us to measure those.

19 The VA likes this concept because then
20 they can attach some service connection to any
21 disability. I also have asked industry to
22 incorporate in this indicator a way to tell

1 immediately if there has been a single IED or
2 single overpressurization or multiple consecutive
3 ones which reach or exceed a certain threshold,
4 and at that threshold you take that service member
5 out of the environment and you do an evaluation on
6 him right then and there. I hope that we're going
7 to be successful in getting this indicator. If
8 you tell industry we'll buy 2 million of them, I
9 think that somebody with this. I want it to be
10 recordable, you plug it into your USB port and you
11 can get a good recording of exposure.

12 So there's a lot going on, and I would
13 tell you there's a lot of debate about
14 definitions, there's a debate about severity,
15 there's a debate about symptomatology, and there
16 is some stigma attached to this. I had some
17 traumatic brain injury 2 years ago and it took me
18 a better part of the year to get back all of the
19 cognitive effects, and I didn't talk about it to
20 too many people. My neurologic exams were normal
21 because the gross neurologic exams that we have
22 now do not detect deficits in higher executive

1 function and things like that. When the
2 neurologist said you're normal, I said, but I
3 didn't start here, and that's another point we're
4 looking at, what are the baselines of cognitive
5 ability that our service members have. When you
6 play football and hockey and you get into those
7 professional sports, they have baseline cognitive
8 tests and we have to have some way to measure
9 where are you when you come in, where are you
10 before combat, so we can determine where you are
11 after combat and make some determination about
12 treatment and about long-term care.

13 The good news is that traumatic brain
14 injury seems to be something that resolves over
15 time especially with intensive therapy. I would
16 just point to Bob Woodruff as a perfect example of
17 two things. One, that very severe traumatic brain
18 injury even can be remediated. And two, the
19 enormous effect and impact that this has on family
20 members and how the family members are part of the
21 therapy and us working with the Veterans Health
22 Administration to work with the families more than

1 we used to. Thanks for letting me talk about
2 this. This is a great initiative and I think
3 we're really making a lot of progress. DOD and VA
4 right now in this conference during these three
5 days here, next month we're bringing in civilian
6 experts in rehabilitation and civilian
7 academicians, research underpins this whole thing
8 to research the exposure, to research the clinical
9 science, to research the education and the
10 treatments, to make sure it's all done right and
11 to add to our literature on prevention modalities.
12 So it is a huge project and I think we're really
13 expending a lot of energy in the right directions.
14 Thank you.

15 DR. POLAND: Thank you. In that regard,
16 and I'm sure you're probably aware, there are some
17 members of the Defense Science Board that have
18 been very heavily involved in the science aspects
19 of it. Wayne and Tammy, do you have any comments
20 that you'd like to make before we open it up for
21 general discussion?

22 DR. LEDNAR: On behalf of our

1 Occupational and Environmental Medicine
2 Subcommittee and the Board, I'd like to really
3 thank Health Affairs and Admiral Arthur and all of
4 the work that you've pulled together so far. I've
5 reminded myself in looking at our recommendations
6 that it was about 9 months ago that the Board made
7 these recommendations and I think what's really
8 encouraging from my personal point of view is the
9 amount of activity across the complexity that has
10 started to be harnessed and pulled together, and I
11 emphasize the word start to be harnessed and
12 pulled together. This is the beginnings. We have
13 now moved past a plan to have a plan, I think we
14 are about at the point of having a plan, and we
15 obviously need to get the mission accomplished,
16 and that is to have impact for our soldiers,
17 sailors, and Airmen.

18 This is obviously complex in terms of
19 the clinical aspects of this, recognizing it,
20 seeing it as a comorbidity along with other
21 injuries, looking at how to screen, looking at how
22 to care and manage especially for the mild and

1 moderate TBI, looking for the longer-term
2 functional impacts, the return to duty. And when
3 you think about the high-technology environments
4 that our military needs to perform in in a combat
5 environment, this particular injury could have
6 very, very serious mission impacting functional
7 adverse effects if we don't manage it well.

8 I think we will all be looking to learn
9 about how similar or different is the blast injury
10 versus the impact injury in terms of what the
11 needs are, what the care issues are, and what the
12 functional return issues are. I would encourage
13 all of you in your work, which I'm very glad to
14 hear is involving the VA as well as the DOD, to be
15 sure that the activities reach across the unified
16 force including after separation from active duty,
17 for National Guard, for U.S. Reserves, and also
18 after leave service and in the VA so that some of
19 the indicators of this experience are not going to
20 be in the DOD medical treatment facilities and we
21 need to harness all that in some way that we know
22 just exactly what's going on.

1 I would request on behalf of the Board
2 that as this work goes on we get periodic updates
3 particularly as you have data to summarize to help
4 us understand how the screening instruments are
5 working, perhaps how the exposure technologies as
6 they are developed are evolving, in terms of what
7 measurable improvements in the care of military
8 who've had these injuries are being put in place,
9 the Board would certainly appreciate that kind of
10 future follow-up.

11 DR. POLAND: Dr. Lauder?

12 DR. LAUDER: Thank you. I thought that
13 was really excellent, Colonel Tony, but I too am
14 quite amazed at the amount of work you've done in
15 a very short period of time on a very, very
16 difficult issue, and you should be commended for
17 that.

18 I do have a couple of questions and then
19 a couple of comments. My understanding is when
20 some of this was started it began a bit piecemeal,
21 but as I understand it now, this particular
22 meeting you're at currently is to try to bring all

1 the services together and have a coherent program.
2 Is that correct?

3 COLONEL CARTER: Yes, it is, and that's
4 why I was brought in. I actually volunteered to
5 take this because it was piecemeal. The three
6 services had separate initiatives and the VA and
7 the civilians were separate, and we needed to
8 bring it all together with a continuum of care and
9 agreement on treatment and on definitions for what
10 TBI is, and that's why we're pulling it all
11 together in this way. Exactly right.

12 DR. LAUDER: Excellent, because that's
13 really critical. I'm just going to go down the
14 line with your different points, first and
15 foremost with the definition, I agree with you
16 wholeheartedly that you cannot let a definition
17 hang you up on something that still has not been
18 established as to what it is. There is no
19 definition. And I would say that it is a syndrome
20 because there are multiple things that occur when
21 a blast happens not only to the brain but other
22 parts of the body, and so I really think it is a

1 symptom complex. A caution with that is writing
2 somebody off as having a pure mental-health issue
3 where they may be depressed because they can't
4 find their way in a grocery store and so they are
5 not separate.

6 The other issue with that is it's
7 curious to me as with this group of amputees
8 within this war, the amputations are a bit
9 different as well because we're seeing a lot of
10 heteroptic ossification. Heteroptic ossification
11 historically you see very commonly in neurologic
12 injuries which as TBIs and CSIs. So I bring this
13 up to say pay attention to that as well and that's
14 part of the syndrome or may be part of the
15 syndrome, it may not, I don't know, but it's
16 something to look at.

17 The testing and evaluation I think is
18 really critical and I think a lot more emphasis
19 needs to be put on what is the compliance in
20 people following and trying to catch these
21 soldiers early on. My understanding from other
22 briefings is that there may be an 8- or 12-hour

1 delay before they even show any symptoms at all
2 and unless you see the soldier first when he gets
3 hit and notice that there is nothing and see him 8
4 hours later and all of a sudden he doesn't know
5 where he's at, this is part of defining this whole
6 blast syndrome and what happens with time. So I
7 think that's really critical from a research
8 perspective. And you mentioned that you can't
9 really treat it right until you have a definition
10 of what it is, but you can't get a definition
11 unless you follow these folks really carefully.
12 So I would say that early screening is really
13 critical here and we need to know what the
14 compliance is of folks doing it on the field and
15 we need to come up quickly with a way for them to
16 document this easily because, granted, in combat
17 it is not easy to document I would assume.

18 Then real briefly with the treatment,
19 there is acute care and then there's rehab and
20 then there's after your rehab, and that is where a
21 smooth transition is really critical between DOD
22 and VA, and it has to be across DOD. It has to be

1 in those small clinics at Fort Bragg and Fort
2 Polk, Louisiana, because when they leave if they
3 stay active duty and they're done with their
4 polytrauma center, where do they come back. Just
5 because one place does acute but didn't do the
6 rehab afterwards, if they come back for a surgical
7 procedure, somebody has to carry on that
8 rehabilitation. So all institutions need to be
9 very up to date on how to care for this soldier
10 for the rest of their life, and I will leave it at
11 that.

12 DR. POLAND: We will open it up for
13 discussion. I just want to say that I'm very
14 proud of the Occupational and Environmental Health
15 Subcommittee. Time has shown when you look back
16 on this that you all produced not only a
17 comprehensive set of recommendations, but a focus
18 to this that has very evidently helped to guide
19 the work and that parallelism I think is going to
20 really jumpstart and benefit the whole process.
21 So thank you again. Comments from the Board on
22 this update?

1 DR. OXMAN: First of all, I am very
2 impressed and I would like to add my compliments
3 to the subcommittee, to Admiral Arthur, to Colonel
4 Carter and the group. It's an amazing amount of
5 progress in less than a year.

6 I have two comments from my point of
7 view of interested ignorance. I am impressed with
8 what I heard about the potential sensitization of
9 early exposure without obvious injury and creating
10 a situation in which the next exposure is
11 amplified. All of the outline that I saw started
12 with gathering data and documenting and getting it
13 into the military record the first traumatic brain
14 injury even if it's mild, but I think until we
15 have industry respond to Admiral Arthur's request
16 for an instrument that can be plugged into a USB
17 port and detail the exposure, I think you need to
18 move one step back in the field to be able to
19 document and get into the electronic hopefully
20 record exposures because that's going to be
21 essential for responsibility for subsequent
22 disability and also for research to help guide

1 people in both rehabilitation and how to return
2 people to battle and perhaps look them a little
3 more carefully prospectively.

4 The other side of that coin is as
5 Admiral Arthur commented on, and that is unless
6 the baseline recruitment assessment tool is
7 sensitive enough, you're not going to be able to
8 document the fact that the function has changed as
9 a result of the military activities. So essential
10 to particularly the VA's role and to the issue of
11 disability and financial responsibility is being
12 able to determine that the recruit had a certain
13 level of capacity that's more subtle than that by
14 a routine neurologic exam and that if that
15 capacity is lost, that it can be documented.

16 VICE ADMIRAL ARTHUR: I absolutely
17 agree. On your first point about documenting
18 exposures, it's very, very difficult unless you
19 have some type of a device to do that. You can be
20 20 feet from an IED but behind a wall and be
21 protected, or you can be 100 feet away in front of
22 a wall and have an accentuated blast effect. So

1 to say I was so many feet or whatnot, I was in the
2 vehicle, outside the vehicle, that's a very
3 subjective thing and I think we need a more
4 objective quantifiable exposure indicator.

5 DR. POLAND: Captain Johnson?

6 CAPTAIN JOHNSON: The global nature of
7 this injury and the difficulty of trying to
8 identify focal changes has led the Ministry of
9 defense to propose a study looking at tissue
10 markers -- in the cardiovascular, and there's a
11 study in progress to try and see if that
12 correlates with alter cognitive problems and
13 secondary effects. I don't believe it's started
14 yet, but I'm keeping a watch on it and if anyone
15 is interested in the proposed protocol, I'll be
16 glad to send it to them.

17 DR. POLAND: We would be interested in
18 any update in that regard. Biomarkers would be
19 very interesting.

20 COLONEL GIBSON: AFRL at Wright-
21 Patterson is also doing some corollary similar
22 type of work on potential biomarkers.

1 DR. PARKINSON: I too like the idea
2 especially coming from occupational medicine of
3 having an exposure marker. It's just wonderful.
4 I was wondering whether there's a relationship
5 between the blast in audiology and whether you can
6 use audiology as the exposure marker. In a sense
7 you've got things going in two different
8 directions, it has an immediate effect, and it
9 should be related to the level of percussive -- so
10 I wonder whether audiology might be your little
11 marker.

12 VICE ADMIRAL ARTHUR: There's a lot more
13 going on than a significant blast effect. There's
14 the acoustics of rifle fire and all of the other
15 things that impact on the auditory acuity, so I'm
16 not sure. We could look at that. We're looking
17 for any biomarker. This is a chemical issue.
18 Everything is chemistry and electricity, and we're
19 just looking for the science of this. General
20 Schoomaker yesterday made the analogy of
21 rheumatoid arthritis or the rheumatoid
22 arthritides and how we are trying to classify

1 things in terms of symptoms initially when the
2 science was not well elucidated and that when the
3 science became better we were able to categorize
4 better, get better drugs, and I think he is right.
5 That may be where we are today with traumatic
6 brain injury and trying to be symptomatic until we
7 can get the science and the markers and get better
8 definition.

9 To your point as well, I think this will
10 be a life-long problem in the problem list just
11 like diabetes. If someone's got diabetes, you
12 handle that as a matter of due course when you
13 treat them. If they have traumatic brain injury
14 as manifest by certain cognitive deficits, then
15 you take that as part of the patient's profile.

16 COLONEL CARTER: Also in response to
17 that question, sir, there is also an effort to
18 protect the ears, and so with some of those
19 efforts including electronic enhancement and
20 dampening, that may not be quite as useful in the
21 future when those new methodologies get fielded.

22 DR. PARKINSON: Admiral Arthur, again

1 congratulations. This is good. And on a personal
2 note, if there is ever an area that brought
3 together your expertise in emergency medicine and
4 occupational preventive medicine, this is it, so
5 you're the right person at the right time.

6 But drawing back a little bit, I loved
7 your comments about this false dichotomy even
8 deeper than PTSD and TBI, but it's the whole way
9 that we characterize in medicine, injury versus
10 illness. Whether or not it's an injury is whether
11 or not we microscopically have the ability to
12 visualize it on a CT or MRI scan. So you may be
13 able to really, and why do we have a whole
14 separate DSM-IV for things that are psychiatric
15 versus ICD9 which are medical, so I think in this
16 dialogue you may have some breakthrough thinking
17 that has huge implications much like General
18 Schoomaker said about rheumatoid disease. But
19 this is really important and if you can come out
20 of this thing, I think back to Persian Gulf
21 Syndrome, it all came down to the functionality of
22 the member pre/post and getting him back to the

1 thing. And if we can maintain that issue as you
2 said so articulately and not get into the trap of
3 something that's a penetrating injury versus
4 something that might be psychologically or humorly
5 related because guess what, I am absolutely March
6 Syndrome from the Civil War. We are recreating
7 the wheel here again and you have a unique
8 opportunity I think to frame the injury/illness
9 false dichotomy in a way that may be revolutionary
10 not just for this syndrome but for the way we
11 think in medicine. Not to be grandiose here, but
12 it really is that big, and I welcome your
13 thinking.

14 VICE ADMIRAL ARTHUR: Thanks, Mike. I
15 wish we knew more about that chemistry of this.
16 It comes down to mental illness is going to be
17 chemical and electrical in the final determination
18 and just don't have the science and don't have the
19 insight to understand that right at the moment,
20 but you're right, it's one spectrum.

21 DR. SILVA: To date how many blast
22 injuries in the most broad sense have occurred?

1 Do we have an idea of what the number is?

2 VICE ADMIRAL ARTHUR: I don't think
3 we've got a true number because we first need to
4 get some definitions of what we're calling a blast
5 injury and then define it. There are many people
6 over there, 20 or 30 percent likely who have been
7 exposed to some type of blast injury. I regret
8 I'm going to have to go. I've got a meeting with
9 Senator Boxer here shortly, and somebody is giving
10 me the hook out there. Thank you all very, very
11 much. Tony, a lot of praise has been directed in
12 this direction here, but Tony really has been the
13 mastermind behind setting all of this up and an
14 enormous amount of credit, all of the credit
15 really, goes to him and his team. Thank you,
16 Tony.

17 (Applause)

18 DR. POLAND: Joe, did you have a
19 comment?

20 DR SILVA: I was just going to again
21 second and applaud all the efforts and activity
22 that's occurred in this very complex and evolving

1 area. I think understanding the basic
2 pathophysiology of physiology is very important.
3 How are you collecting all this data? Do you have
4 a central database so that you can characterize a
5 certain cognitive profile?

6 COLONEL CARTER: I'm afraid I can't
7 answer you very much on the research that's
8 ongoing because I'm not very into that area. So
9 I'm sorry.

10 COLONEL GIBSON: The traditional animal
11 models for traumatic brain injury have been
12 rabbits and rats. We had a long discussion, we
13 had an afternoon, about 2 years ago where we went
14 into this at great depth. Those were the models
15 that they talked about at that time. But if you
16 can imagine, the model is you have the animal and
17 you hit it with an impact and then study the
18 pathophysiology from there. This is entirely
19 different and to my knowledge nobody is looking at
20 overpressure and the issues associated with blasts
21 in a laboratory setting.

22 DR. POLAND: Again, in terms of the

1 research part and some of the conferences that
2 you're devising, some of the Defense Science Board
3 individuals could bring a wealth of knowledge and
4 integration of that part of this whole equation to
5 the table.

6 CAPTAIN NAITO: DARPA had an initiative
7 a year ago that we got briefed on but for some
8 reason it got delayed. They were looking at the
9 science of blast injuries, so looking at
10 overpressure, acoustics, electromagnetics, the
11 whole range. I'm not sure whether it got funded
12 or not, but it was supposed to be like a \$30
13 million project.

14 DR. POLAND: I'm not sure. Maybe we
15 should try to bring them back here. Some of the
16 videos of the work that they have done make you
17 immediately realize the enormity of the multiple
18 complex injuries that are happening to some
19 individuals including some of the real-time video
20 footage of injuries that have occurred in theater.
21 It really gives you an appreciation for what we're
22 talking about at least in the more extreme sense.

1 I think we will take about a 10- to 15-minute
2 break and then reconvene.

3 (Recess)

4 DR. POLAND: Our next speaker is
5 Lieutenant Colonel Thomas Grieg. He is Program
6 Director for Accessions Medical Policy and
7 Clinical Informatics in the Clinical and Program
8 Policy Office at Health Affairs. He will present
9 a new question to the Board on evidence-based
10 accession, retention, and deployment medical
11 standards. His slides are under Tab 5.
12 Lieutenant Colonel Greig, the floor is yours.

13 LIEUTENANT COLONEL GREIG: Thank you
14 very much, and I appreciate the opportunity to
15 pose a question to you today. I'm here on behalf
16 of Dr. Jack Smith, the Acting Deputy Assistant
17 Director for Defense for Health Affairs under
18 Clinical Program Policy. Conceptually what we
19 want to do is we would like to ask a question on
20 looking at military medical standards from
21 accession through separation. To kind of tee
22 things up and give you some background, we've had

1 an evidence-based accession medical standards that
2 have looked at issues dealing with the first term
3 attrition by looking at morbidity, waivers, and
4 existed prior to service, and out of this
5 evidence-based approach on accession medical
6 standards we've had some good success. We've been
7 able to discontinue syphilis screening, dental
8 pantographs, EKG screening, and serum hemoglobin
9 and hematocrits screening in an initial applicant.
10 At the same time, we've also been able to change
11 the standards for asthma and attention deficit
12 order with hyperactivity.

13 Which brings us to our current
14 situation. Right now each service independently
15 determines retention standards based on the DODI
16 1332.28. The Air Force and the Army have
17 regulations defining medical fitness for duty and
18 retention, the Navy looks at fitness for duty for
19 retention on a case-by-case basis, and so right
20 now we're looking at accession medical standards
21 only on the first term, and yet at the same time
22 we're dealing with retention standards over the

1 course of someone's career and this sets up the
2 issue of looking at medical standards spanning a
3 career from accession through separation, these
4 standards are set up independently without full
5 consideration of the full impact of each other or
6 across the period of service.

7 This raises a couple of questions in our
8 minds, namely, what impact does a decision to
9 change or waive an accession medical standard have
10 on the potential of an individual beyond the first
11 term of service? Or would these changes
12 ultimately increase the prevalence of individuals
13 coming before the Medical Evaluation Board and
14 Personnel Evaluation Board for disability claims?
15 And the converse, at what point should a decision
16 on a medical retention standard potentially affect
17 how we look at an accession standard? So the
18 question we would like to ask you to examine and
19 give us some guidance on is what are the issues
20 associated with establishing and modifying the DOD
21 medical standards that span the career life cycle
22 of a service member from point of accession to

1 separation from service? And what tools or
2 methods should we use to establish and modify
3 these standards so that we can minimize the
4 potential for aggravating a medical condition that
5 would preclude or shorten someone's career in the
6 military?

7 DR. POLAND: One point I should start
8 with, with the switch from the AFEB to a new
9 board, the DHB, this is a good illustration of why
10 we will need to appoint certain subcommittees, for
11 example, the equivalent of a health promotion type
12 of subcommittee to deal with this, but at some
13 point we'll need to have an understanding of what
14 some of those changes have been, what the process
15 is for gathering evidence and changing policy, and
16 what the actual differences are between services.
17 With that as background, Mike, do you want to ask
18 a question?

19 DR. HALPERIN: Yes, thank you. I know
20 we're going to hear from Colonel Niebuhr here in a
21 few minutes, but I guess my boarder question is
22 where does this question fit in the broader work

1 of all of the post-Walter Reed effort, multiple
2 commissions that speak to this very issue? And
3 would taking this on independently of that or in
4 advance of that be kind of the cart in front of
5 the horse? Because an awful lot of what is being
6 looked at congressionally, by the White House, and
7 by the commission we just heard from at our last
8 meeting has to do with MEB and PEBs which
9 basically sit on top of what? Standards. So I
10 guess I would just have a process flag here a
11 little bit for us to discuss as to whether or not
12 the Board wants to take this question at this
13 juncture pending the completion of those other
14 studies, and if you will, a meta analysis of what
15 is the expert guidance about the MEB/PEB process.
16 Because having worked in the standards area
17 myself, when you get into evidence-based
18 standards, there are very few. So we can spend a
19 lot of time in this area while these other efforts
20 are still ongoing and not yet completed. That's
21 my only comment.

22 DR. POLAND: Roger, do you want to make

1 a comment on that?

2 COLONEL GIBSON: A couple of comments.
3 This one is a little broader than the issue of the
4 disability evaluation system in that it talks
5 about not only retention standards, but deployment
6 standards as well. I agree with you there is some
7 linkage there no doubt. The other thing is that
8 the POTUS Commission, this Shalala/Dole
9 Commission, is prepared to deliver their product
10 shortly. It's supposed to be the end of June. So
11 this question is being posed in a way that allows
12 us to begin this process and carry on and be
13 prepared to assume some of the tasks and
14 recommendations associated with that, in other
15 words, flesh out what those recommendations are
16 going to be.

17 DR. LEDNAR: We have an expression that
18 we use at Kodak across our businesses and
19 throughout our geographies, as common as possible,
20 as different as necessary. I'm just wondering as
21 clearly in the history of how these standards have
22 come to be, the accession standards and the

1 retention standards, it reflects a service-
2 specific need, a service-specific function, goal,
3 mindset. But it seems like increasingly the
4 reality of how DOD operates in is unified
5 commands, everyone needs to work together. So I
6 think while there are service-specific aspects
7 that reflect both accession and retention in kind
8 of an MOS mindset way, as unified command needs to
9 operate as a single entity, as a coherent single
10 entity, I don't know at what point that begins to
11 find its way into what should be the commonality of
12 accession and retention. I think military
13 leadership is going to have to decide just how
14 important that is.

15 LIEUTENANT COLONEL GREIG: If I may just
16 respond to the first question posed, my
17 understanding is a lot of what is going on with
18 the Walter Reed is looking at process, and in this
19 we would like to focus on the standards
20 themselves. The second part to you, Dr. Lednar,
21 is that the services have agreed to have a common
22 accession standard. There are obviously different

1 service retention standards, and certainly some of
2 these standards based on fitness for duty are MOS-
3 specific, you're absolutely right, and so how do
4 we go about unifying these things from a medical
5 standards point of view, not trying to get
6 involved with the process itself, but the
7 standards.

8 COLONEL GIBSON: Another point is, and
9 Tom pointed it out clearly, we have been able to
10 do things within the accessions arena. As a
11 matter of fact, the pantographic dental exam was a
12 recommendation from this Board. The Armed Forces
13 EPI (?) Board drove the change in that
14 pantographic exam standard.

15 It seems to me it would be worth this
16 Board to at least consider looking at this from
17 the standpoint of the linkages or correlations
18 between accession standards and retention
19 standards over time. There is a certain level of
20 predictive value there that is worthwhile to look
21 at. Whether that becomes a driver or not is going
22 to be based on the science. So at least some

1 comments from the Board in that area would be
2 worthwhile to the Department.

3 DR. PARKINSON: If I may, Parkinson
4 again, and I don't want to steal or put words in
5 Dr. Pronk's mouth, but he is not here at the
6 moment and I've done it before, but I think one of
7 the areas of expertise that Niko brings to the
8 Board and many of us also are very interested in
9 is the notion of fitness and performance as
10 opposed to just presenteeism, and I think that the
11 services, whether it is what is VO2 max, should
12 there be regular testing of the services, that's
13 the best predictor of all cause mortality,
14 strength and flexibility, psychiatric fitness,
15 cognitive fitness, the types of things Admiral
16 Arthur just mentioned. This gives us entre to
17 have a good, broad, and hopefully very valuable
18 discussion for DOD to consider. My consideration
19 before was yet again not in the stovepipe, but how
20 this all fits with the broader issues that are
21 front and center right now.

22 CAPTAIN NAITO: Actually, that's a good

1 point because one of the issues we're dealing with
2 in the Navy is we're providing this augmentation
3 force of personnel, ones and twosies going over to
4 Iraq to support the Army mission, and the problem
5 is that from our standpoint our sailors are fit to
6 do the naval duties that they're required, but
7 then when they are asked to augment the Army
8 forces, a different set of requirements is put on.
9 That's been a problem with deployment standards,
10 that from the services, at least the Navy's
11 perspective, we have our own unique needs that are
12 quite well met with our standards, but then when
13 you put them in an Army environment and Army
14 standards, they may not necessarily meet that
15 mission from the git-go. Certainly obviously with
16 training and things like that I think they can
17 with the Army standards. So again something like
18 looking at a VO2 max, something like that, might
19 be of interest to say whether someone can be
20 deployed or not and then looking at it from that
21 issue. But certainly the deployment issue is a
22 very sticky one because we have our different

1 missions and different requirements, so that might
2 be very tough to crack.

3 CAPTAIN JOHNSTON: The Ministry of
4 Defense has actually just been through almost
5 exactly this process of trying to drive joint
6 accession and retention standards. One of the
7 issues I think might be worth specifically
8 addressing is this moving on from VO2 max, the
9 whole business of physical fitness and obesity and
10 how the interface between the executive decisions
11 on that and the medical decisions on that because
12 they have both executive and medical implications
13 and that is often the cause of problems.

14 DR. POLAND: At least for accession, a
15 major problem that all the services will face.
16 Thank you very much. Our next speaker will be
17 Lieutenant Colonel David Niebuhr who is Chief,
18 Department of Epidemiology, and Deputy Director,
19 Division of Preventive Medicine at Walter Reed
20 Army Institute of Medicine. Lieutenant Colonel
21 Niebuhr will update us on the AMSARA, or the
22 Accession Medical Standards Analysis and Research

1 Activity and provide background information for
2 the discussion and questions before us. His
3 slides are under Tab 6.

4 LIEUTENANT COLONEL NIEBUHR: Good
5 morning, and thank you for the privilege to brief
6 the Board this morning. I think I'm suffering
7 from some mild cognitive impairment due to a
8 nontraumatic brain injury. I did last brief the
9 Board at Fort Bragg, but I have no idea when that
10 was. I know it was a couple of years ago.

11 I would like to acknowledge my colleague
12 Colonel Christine Scott who is in the back of the
13 room. She and I together partner to push the
14 AMSARA forward.

15 This the policy question paraphrased and
16 abbreviated. My apologies to Health Affairs if
17 it's not completely accurate. Essentially as I
18 see it is, should DOD have a requirement to
19 develop evidence-based deployment and retention
20 standards as it currently does for accession
21 standards? This is my agenda. I won't spend any
22 time on that.

1 This is our mission. I think the Board
2 is familiar with that, but we were established a
3 decade ago and we are the consultants to the
4 Accession Medical Standards Working Group or AMSWG
5 as we affectionately call it, and we assist in the
6 development of evidence-based medical accession
7 standards, and our goal is to maximize accession
8 and minimize attrition.

9 Over our first decade we have reviewed
10 the DOD Instruction 6130.4. I won't bore you with
11 the title, but this is a Uniform Services Medical
12 Accession Standard. The services do not have the
13 ability to have their own accession standards, but
14 they certainly do have their own ability to waive
15 individuals for the same condition. Frequently
16 people apply to multiple services with a
17 disqualifying condition such as asthma and will
18 get waived in one service and not another, so
19 there are some discrepancies in the criteria, but
20 the accession criteria are constant. This applies
21 to all components be it Reserves, National Guard,
22 be it officer or enlisted.

1 What we have been doing is trying to
2 assess the validity of current standards and
3 proposed evidence-based policy changes. Some were
4 mentioned earlier about the EKGs and pantographs,
5 et cetera. We have performed a number of
6 attribution morbidity waiver and EPTS studies,
7 over 20 in fact. I included a very brief summary
8 of those studies in the backup slides. I think I
9 probably focused more on that at Fort Bragg the
10 last time I briefed the Board. And we have
11 supported data to our Working Group to actually
12 screen individuals with the likelihood of success
13 through their first tour of duty.

14 This is a schematic of how we play in
15 DOD's efforts to develop evidence-based medical
16 accession standards. The first bubble, if you
17 will, gives you the considerations that we bring
18 to the table, the burden of disease in the general
19 population as well as in the military population
20 specifically, the ability for our military
21 entrance processing stations for the enlisted side
22 to accurately screen and diagnose conditions, the

1 associated morbidity and nutrition with these
2 conditions for an individual in uniform. And in
3 italics because we don't have it, this is
4 notional, is the impact of a medical condition on
5 the occupational requirements and his or her
6 ability to deploy.

7 From these considerations we move into
8 the research tools utilized. You can see the
9 variety of techniques there. Just in the spirit
10 of full disclosure, missing from that bubble in
11 our opinion is programmed health economics
12 capability because what we end up doing is we end
13 up discussing issues of prevalence and outcomes
14 such as attribution or morbidity, but in the final
15 analysis, DOD needs to make business case
16 decisions and what we don't have in AMSARA and I
17 don't believe within Health Affairs at least in
18 terms of medical accession standards is the
19 ability to do cost-benefit or cost-effective
20 analysis, and I think that's a vacancy.

21 At any rate, from the products of these
22 research tools then we move into new policy

1 recommendations. We have briefed these to the
2 stakeholders. We are not voting members. We
3 don't set any policies. The final decision makers
4 are the Under Secretary for Defense for Personnel
5 and Readiness, the MEDPERS Committee, which is a
6 three-star-equivalent committee, and then from
7 there new standards are implemented. Just to
8 remind the Board, in April 2004 we probably had
9 the greatest impact when we recommended making the
10 asthma and ADHD or attention deficit with
11 hyperactivity disorder standards more lenient, and
12 we conservatively estimate about 3,000 more
13 applicants were qualified as a result of those two
14 standards and associated cost savings of about \$15
15 million per year.

16 These are Colonel Scott's and my opinion
17 only, and I have a disclaimer at the end, so I
18 don't want to give you any kind of false
19 impression. At any rate, I have floated this in a
20 number of fora and haven't been shot down yet.
21 But the current accession process I believe is
22 designed to screen out potential failures. That's

1 how they are incentivized. The focus is on
2 potential medical problems that are either
3 identified during the medical examination or the
4 history and medical examination or revealed and
5 detected by the medical officer. Obviously, as
6 you know, screening relies heavily on self-report.
7 We have done a number of studies that show that
8 individuals with a prior history who disclose that
9 position, go through the waiver process, come onto
10 active duty, perform well or in the case of asthma
11 actually better than those not requiring a waiver
12 paradoxically.

13 The other side of the equation is when
14 we looked at the premature medical discharges for
15 preexisting conditions or what we in the Army call
16 existing prior to service, the vast majority of
17 these conditions were either not revealed because
18 they were not known or because they were concerned
19 during the MEPS examination process.

20 So to put it another way, the current
21 state of affairs we believe is that military
22 applicants have a strong incentive to report a

1 negative of any potentially disqualifying
2 condition at the time of their entrance
3 examination. The current screening process is
4 largely history-based, certainly there are
5 objective tests that are applied, but
6 nevertheless, largely history-based, and we
7 believe penalizes many honest applicants by
8 putting them through the disqualification waiver
9 process where they have to produce medical
10 records, potentially consultations, definitive
11 testing, and at the same time misses many who are
12 either undiagnosed or actually concealing their
13 diagnosis, and ultimately a portion of those will
14 end up will end up prior to service discharge.

15 So that is the framework. I just wanted
16 to make the Board aware of a 2006 report by the
17 NAS. You can see the title of the committee at
18 the top. They identified six area for needed
19 research. I won't read all of them. I just
20 wanted to highlight numbers 2 and 3 because we
21 believe they deal specifically with medical
22 accession standards and this was brought up by

1 some of the Board Members already, the need for a
2 pretraining fitness intervention to reduce whether
3 they are a viable and cost-effective route to
4 reduce injury and attrition. Number 4 deals with
5 the area of mental health, compare attrition rates
6 of enlistees with and without mental-health
7 conditions existing prior to service. I don't
8 have any time to go into this report. The Website
9 is there for you. In the backup section I do have
10 some slides that expand on points 2 and 4
11 specifically how the committee recommended mental
12 health be screened and that kind of thing. And I
13 know with your involvement with the Mental-Health
14 Task Force, that may be of interest to some of the
15 Board Members.

16 This is going to be a very quick brief,
17 but I'm going to turn from our past research which
18 has been focused largely on existing data sources.
19 I've attempted to summarize what we've done with
20 existing data sources in your backup slides. I'd
21 be happy to provide any more information. All of
22 our reports are on the Website. If you need hard

1 copies, please just let me know.

2 But what I really wanted to turn to is
3 what are we doing currently, and this is in the
4 area of functional assessment as people were
5 mentioning particularly in two areas, physical
6 fitness, and psychological fitness.

7 The first is the ARMS study, or the
8 Assessment of Recruit Motivation and Strength
9 Study. This study was developed by my predecessor
10 Colonel Retired Margo Krauss and together we
11 identified that there would be a potential benefit
12 of adding a performance test. In credit to
13 Colonel Krauss, this was before the NAS committee.
14 The Marine Corps, for example, has a very strong
15 physical fitness assessment program prior to
16 coming into basic training. The Army does not,
17 and I don't believe the other services do either.
18 We did a rough business case analysis for the Army
19 leadership to say could the potential benefits of
20 adding a physical fitness test be early on in the
21 accession process as screen in, as an additional
22 qualifier, if you will, and you can see the

1 numbers before you. We predicted about 11,000
2 more accessions per year, this particularly in the
3 area of qualifying folks who failed the weight and
4 body fat standards. We used some NHANES data for
5 BMI. The current accession standard is based on a
6 BMI of 27.5, but if you don't meet that then you
7 go to a body fat ceiling which is dependent on age
8 and gender, and I can't talk more about that later
9 if you're interested. So that was our proposed
10 return on investment.

11 We didn't get all 65 military entrance
12 stations as a study site, thankfully, we got six,
13 and that was more than enough for us to handle.
14 But between February 2005 and September 2006, over
15 2,000 individuals were able to access into the
16 military through this ARMS test program, and we're
17 studying their attrition.

18 We thought that this was not only a
19 measurement of physical fitness, but motivation,
20 hence the M in ARMS. We have some ideas of how to
21 tease apart motivation from physical fitness. I
22 can't present any data to you on that just yet,

1 but we suspect that in terms of the ratio between
2 motivation and physical fitness that motivation is
3 probably the more powerful of the two. It's
4 probably not 50-50, but at any rate, we are
5 measuring a combination of both motivation to
6 service as well as physical fitness. We thought
7 that this kind of testing would offer the
8 opportunity of moving attrition far to the left,
9 i.e., earlier in the soldier's life cycle based on
10 measurable criteria that could be related to
11 future attrition and offer the potential to crease
12 injuries because we know from the literature is
13 correlated with risk of injury.

14 Just a very quick idea of some results.
15 In this study we administered the test over 26,000
16 times to over 22,000 individuals, over 3,900 over
17 body fat individuals passed, or the overall pass
18 rate was 72 percent. As I mentioned, over 2,000
19 were granted the waiver and shipped to basic
20 training. We do have some attrition data for you
21 there. You can see a slight increased risk,
22 approximately a 5-percent net increased risk, of

1 attrition, and also an increased risk of
2 musculoskeletal injuries in our male cohort as
3 opposed to females with a waiver for over body fat
4 compared to their fully qualified group. I can
5 talk more about that if you're interested and
6 there is some information in the backup slides.
7 But we caution everyone that we present this
8 information to that we have limited event size and
9 follow-up time for firm conclusions.

10 The retention weight and body fat does
11 not apply until 12 months of service and so these
12 individuals are coming in overweight, over body
13 fat, but relatively fit and relatively motivated.
14 So the real jury on this is not only a 6-month
15 attrition or a 1-year attrition, but what happens
16 when retention weight and body fat standards
17 occur, so the jury is out on that. A preliminary
18 look is that they are not being discharged at
19 higher rates, but this is very early.

20 Also we are very concerned about
21 injuries, particularly those that the literature
22 would suggest are related to being overweight and

1 over body fat, specifically -- injuries. To date
2 we haven't found evidence of that, but we have
3 another summer that we can look at in terms of our
4 cohort and so that's due out.

5 I'm going to turn to psychiatric
6 screening. I apologize for the fast temp and the
7 lack of depth, but there are backup slides, and
8 talk about our efforts in terms of psychiatric
9 screening. Our objective was to develop a rapid
10 and inexpensive method to screen military recruits
11 for major psychiatric disorders or other
12 behavioral factors that strongly predict
13 occupational dysfunction in the military. The
14 environment in which this instrument would be
15 applied would be MEPS stations by primary-care
16 physicians for the most part, and so the
17 instrument would be standardizable and
18 interpretable by nonpsychiatric-trained
19 physicians, and the test should obviously be
20 reliable and valid. As a result, we did a small
21 research program through a contractor. I don't
22 have time to brief you on the results of that, but

1 just to say that instruments were developed but
2 not yet validated and part of the problem is we
3 have civilian contractors trying to do research in
4 a military environment and we've had just
5 tremendous human subject issues to accomplish
6 that. So we have draft instruments, but they are
7 not yet validated.

8 So what we are proposing, and this is I
9 believe consistent with the National Academies of
10 Science's recommendation would be a multisite
11 efficacy trial of a psychiatric screen, be it one
12 that has been developed under the small business
13 program or perhaps better yet, the Army Research
14 Institute has an instrument called the AIM, the
15 Assessment of Individual Motivation, which has
16 been validated in the Army applicant population.
17 We would then administer the questionnaire and
18 follow individuals for psychiatric morbidity as
19 well as attrition through Initial Entry Training,
20 IET, and the first tour of duty. Then we would
21 push forward and actually try to use this
22 instrument in a predictive fashion to screen in

1 applicants who self-disclose a history of
2 disqualifying psychiatric conditions. You will
3 see there that the thirteenth birthday for mood
4 and anxiety disorders, that was a specific
5 recommendation of the National Academies of
6 Science Committee. They saw what we had done for
7 asthma, they looked at the literature on mental
8 health and there is a lot of misclassification
9 obviously in terms of psychiatric diseases and
10 they thought that if it was restricted to
11 childhood, i.e., they were free of disease in
12 adolescence that it would be worth while for DOD
13 to study that as a future standard. Obviously,
14 when you apply a screen you have to be prepared to
15 deal with the answers you get, and so we would
16 have to develop some kind of a clinical management
17 guideline for a predefined set of responses that
18 would be of concern and warrant further
19 evaluation.

20 Those are our two current research
21 initiatives. I just wanted to give you a flavor
22 for how we do this. You can see our funding on

1 the first two bullets. We believe that we pay for
2 ourselves with every 20 premature attritions we
3 avoid. Administratively, AMSARA had been an
4 executive agency under the Office of the Surgeon
5 General I believe because of some requirements by
6 the Deputy Secretary of Defense. OTSG transferred
7 AMSARA from themselves to the Medical Research and
8 Materiel Command in September. Most of our
9 analysts are contractors as you might expect.

10 This is a snapshot of the ARMS study.
11 In FY06 the bill was approximately \$838,000. The
12 return on investment we believe just crudely is
13 about \$750 for every over body fat accession
14 realized in that program. And I should tell you
15 that the study is over, it went through September
16 2006, but it is now implemented as a program by
17 the U.S. Army Accession Command at all 65 MEPS, so
18 we are still accessing individuals and we're
19 enrolling into our database for outcome analysis
20 in partnership with the Army.

21 These are some things we tried to do
22 unsuccessfully. We put in a UFR, an unfunded

1 requirement for the FY08 program and to do program
2 funding of prospective outcome research. You can
3 read the slide, but essentially it died on the
4 vine because of lack of a bill payer.

5 To back to the policy question, again
6 just to restate it, should DOD have a requirement
7 to develop evidence-based DOD deployment and
8 retention standards as it in fact currently does
9 for accession standard? I'll reference the
10 document that's entitled "The Military Health
11 System Transformation Effort" as part of the QDR,
12 Quadrennial Defense Review. There is a specific
13 objective to define standards and resource
14 requirements for a healthy, enhanced, and
15 protected force.

16 Just a few slides. I won't spend a lot
17 of time on most of them, but a few slides that
18 show you what we're thinking about in terms of
19 medical retention standards be this work by AMSARA
20 or some other agency, we really don't have a
21 vested interest in that. An analytic approach
22 might to begin with retrospective case control

1 studies looking at risk factors in the population
2 of individuals who go before an MEB and a PEB. As
3 you know, nobody everybody who goes through an
4 MEB, Medical Evaluation Board, gets referred to
5 the PEB, so it would be of interest to see what
6 the differences are there. Then secondly, it
7 would be interesting to look at a survival
8 analysis of individuals who have gone through the
9 MEB and see how many of them had medically
10 disqualifying conditions on accession.

11 We could look at survival of folks who
12 go through the MEB and are found fit for duty say
13 for mild asthma or a psychiatric or
14 musculoskeletal condition. I don't believe that
15 kind of analysis has been done to date, and we
16 could do that by medical categories. Then
17 finally, we would propose that we would have some
18 kind of health economics analysis capability
19 because when we're making policy recommendations
20 for new standards, there are a lot of second- and
21 third-order effects that need to be considered in
22 terms of care for these individuals.

1 We would require some new data sets. I
2 believe all of these exist, you can see them on
3 the slide, to do this kind of analysis, we being
4 DOD. Certainly there would be some manpower and
5 financial requirements associated with that. This
6 is a really rough estimate of what we think we
7 might need to do for this kind of analysis. We
8 are developing a White Paper for Health Affairs
9 and we have done some back-of-the-envelop
10 calculations of return on investment. This is
11 difficult and this methodology could certainly be
12 criticized, but we did have data from the Army and
13 Physical Disability Agency on their annual budgets
14 and caseloads and this does not include the cost
15 for Medical Evaluation Boards. We are attempting
16 to do something similar for the other services,
17 but if we just use our incremental costs to do
18 retention standards of 644,000 at a cost per case
19 of about \$355, we would pay for ourselves with
20 about 1,800 cases avoided per year, or a 12-
21 percent reduction in caseload. This seems high.
22 This does not realize the case of MEB cases

1 avoided because they aren't initiated or MEB cases
2 that were found fit for duty, so we need to try to
3 conclude that somehow in our return-of-investment
4 calculation. I'm not really sure how to do that
5 especially since we don't have a health economist.
6 We believe this is a conservative estimate because
7 it excludes our sister services.

8 Turning to deployment standards. These
9 slides follow the same format, but I'll just
10 breeze through these because we really don't have
11 DOD medical deployment standards yet. They
12 currently are service-specific or in this
13 environment combat and command-driven. There is a
14 draft DOD Instruction for deployment standards I
15 believe coming out of Force Health Protection and
16 Readiness that will be the first of its kind. I
17 do not believe that deployment disqualifications
18 are systematically recorded or tracked in any way
19 whatsoever so I don't think this data is out there
20 to be looked at, so that would be something in the
21 future. But at any rate, some of the analytic
22 approaches you can see are very similar to what we

1 would do with retention, and so I'll just leave
2 that to you to read.

3 As I alluded to with the last slide,
4 these data sets are notional and this is perhaps
5 an extract of what we would like to know by
6 individual, obviously, and by diagnosis who was
7 nondeployable in a theater. The NDC just so you
8 know does track deployments and they have a
9 database at the individual level and it does have
10 some detail as to where they were in theater and
11 their length of service in theater, so that would
12 be helpful. This is what we would estimate might
13 be the an approximation of the cost in terms of
14 manpower and dollars to do this kind of analysis.
15 We really didn't know how to do a return-on-
16 investment calculation without the data of average
17 per nondeployable. The cost for being
18 nondeployable would vary dramatically based on
19 occupational specialty, rank, and theater
20 operation, so this is a real tough I think return
21 on investment for us to calculate, so we deferred
22 it.

1 This is a timeline that we have
2 proposed. We have some funding issues with the
3 new contractor I won't bore you with. We have
4 proposed the idea that the Defense Health Board
5 help the DOD validate a requirement to even do
6 this, so we're presenting to you the issue of
7 oversight, and management of AMSARA is to be
8 determined. Then we would probably consider a
9 phased expansion into retention and deployment
10 standards as you can see on the fifth and sixth
11 bullets. This is very notional, but just to give
12 you a concept.

13 So next steps. After the Board reviews
14 and make recommendations, eventually I believe
15 that the decision-making body will be the Under
16 Secretary of Defense for Personnel and Readiness,
17 MEDPERS Committee, specifically the co-chairs that
18 you can see on the second bullet, and endorsement
19 by the full Committee, program and execution.

20 This is just to tell you what's in your
21 backup slides. Our past research, more details on
22 the National Academies of Science committee report

1 especially concentrating on physical assessment
2 and psychiatric assessment and a little bit more
3 information on our two current research
4 initiatives. I'll stop here and take any
5 questions.

6 DR. POLAND: Thank you.

7 DR. PARKINSON: Colonel Niebuhr, a
8 thorough as usual and excellent presentation. I
9 wasn't wrong. Wherever that meeting was, it was
10 good then too.

11 Just some thoughts and on a lighter
12 note. This Holiday Inn, Roger, used to be a
13 Howard Johnson's and my brother used to work in
14 the kitchen at Howard Johnson's. At Howard
15 Johnson's, if you did not use a spatula to get to
16 the very bottom of that 5-gallon drum of
17 mayonnaise, you would be fired. The reason was
18 Howard Johnson knew to the penny that if you
19 didn't use a spatula on a 5-gallon drum across the
20 entire system what the loss to Howard Johnson's
21 was in dollars of mayonnaise that they would have
22 to buy. It is that scrutiny down to what I call

1 the spatula factor that DOD has got to get more
2 sophisticated about, and I'm sure you've got it at
3 Kodak and Loss Control and every other company
4 that I've worked with.

5 So not only ye verily do you have to get
6 the economics in here, but we've got two good
7 medical models that I know the DOD at least in the
8 Air Force used and that was the SAMEC model which
9 is the Smoking Attributable Morbidity, Mortality
10 and Economic Costs was also applied to alcohol.
11 But what you're driving here, David, and I would
12 shoot for the moon while you're proposing is you
13 want a behavior and condition-specific
14 deployability attributable model, deployments
15 morbidity, mortality, and economic costs either
16 gained or avoided, and go for the home run and
17 build the model. Your synergy here I think is
18 going to be to realize is it's not a medical
19 model. The fact that your P&R is great because
20 the biggest single reason people are leaving has
21 to do with the midlevel Captains in the Army is
22 probably not because they've got a medical

1 diagnosis, it's because of the stresses, it's
2 because of their financial situations, it's
3 because of their family situations. So to the
4 degree you can broaden this out of a medical model
5 to the social model and make it a comprehensive
6 economic and epidemiologic model, you'll win the
7 day. And you'll want to have that ROI calculation
8 in there because every other company, and that
9 brings me back to that crazy mayonnaise story,
10 they know exactly the mayonnaise in the bottom of
11 the jar goes right to their bottom line. And now
12 we've got a huge retention problem for good
13 reasons across the military, but we've got to get
14 down to that level of scrutiny.

15 So my final comment is it may not be a
16 health economist you want. As a matter of fact, I
17 would urge you not to use that word. I would use
18 DOD financial analysis, a financial analyst who
19 works for the Comptroller to use whatever is the
20 accounting methodology they use to buy tanks and
21 weapons as opposed to have something funky that
22 looks like a health economist because it won't fly

1 in the E Ring. Just a thought.

2 LIEUTENANT COLONEL NIEBUHR: I
3 appreciate it. Thank you very much. Colonel
4 Erickson owes you \$20, I guess I do too. We've
5 been kind of cautiously telling Health Affairs and
6 P&R that with the arms study, we're getting out of
7 the medial accession standard business, but when
8 you look at the prevalence for disqualifying
9 conditions, medical is relatively small, and we
10 would spend a lot of time in our working group
11 wordsmithing standards, should it be the
12 thirteenth birthday, should it be the fifteenth
13 birthday, what is the evidence for one versus the
14 other. But just prevalence-driven things that are
15 very powerful are obesity, a sedentary lifestyle,
16 and other lifestyle issues.

17 I just wanted to highlight to you the
18 recommendation number five from the National
19 Academies of Science Committee, conduct a cost-
20 benefit analysis regarding the effects of
21 increasing the stringency of the current marijuana
22 waiver policy. Marijuana is an extremely common

1 disqualifying condition and one of the things that
2 we're looking at in our partnership with the Army
3 Research Institute on a new psychological fitness
4 screen would be this population of folks who come
5 up positive on a urine drug screen for marijuana.
6 Currently the services waive this condition based
7 on their own criteria, but let's take a look at
8 these individuals more in the composite sense and
9 see how they do.

10 In the prior talk somebody was talking
11 about assessing recruits and the importance of
12 having a baseline. I just wanted to point out to
13 the Board in light of that talk as well as this
14 that there is a good cognitive screen that is done
15 on military recruits, the Armed Forces
16 Qualification Test, which has just incredible
17 numbers and a long history. Again, the Army
18 Research Institute is the proponent. But the new
19 domain is probably noncognitive functioning, and
20 this one instrument, the Assessment of Individual
21 Motivation, is an Army program so that's a
22 limitation, but it is a new domain and AMSARA is

1 very excited about looking at people in a
2 multidimensional fashion. So not only do you have
3 asthma, yes or no, but what is your physical
4 fitness, what is your psychological fitness, and
5 how are you in cognitive and noncognitive domains,
6 not because any one domain may be disqualifying,
7 but because together when you link individual
8 screening tests, relatively poor test
9 characteristics are much more predictive. So we
10 have kind of said to Health Affairs and P&R that
11 AMSARA has been moving out of the medical
12 standards and we want to make sure that you
13 understand with full knowledge what we're doing
14 when we're challenging weight and body fat
15 accession standards and potentially some of the
16 other very prevalent behavioral-type factors that
17 are important in terms of the accession process.
18 So far they haven't slapped us on the wrist, but
19 thank you for your comment.

20 DR. POLAND: I have a question for you.
21 What you will have to work with in terms of
22 accessions will mirror what's happening in the

1 civilian population all through childhood and
2 adolescence up to the point that they come to you.
3 So that's one issue. The second issue is that it
4 seems like the accession standards have sort of
5 revolved around the idea that everybody who comes
6 into the military requires a certain amount of if
7 you will brute strength to function well and to do
8 their job, and clearly that is not the case in all
9 of the services. It might be true in the Marine
10 Corps, for example, and less true in other
11 services.

12 I wonder if there has been much
13 discussion about more of what's done on the
14 civilian side. At the Mayo Clinic, I live in a
15 farming community and we have people who have had
16 farm accidents and are missing one extremity.
17 They are qualified for certain slots of positions
18 and not qualified for others, and for any given
19 medical condition you could probably make that
20 case. So I wonder if there has been that
21 discussion.

22 Then lastly, the idea, and it is

1 interesting and may be counter, it was counter to
2 prevailing wisdom, when you actually did the
3 research you found, was it with asthma, that they
4 did better than other individuals. So how does
5 all that play out in developing accession
6 standards particularly the point about different
7 standards for different sorts of slots?

8 LIEUTENANT COLONEL NIEBUHR: That ties
9 into the first recommendation of the National
10 Academies of Science committee on the slide there.
11 You might take a look at that. The committee
12 really wrestled with that and many of them were
13 coming from an occupational medicine background
14 and wanted specific standards for your occupation.
15 The problem that the military briefers made was
16 that we have 200 or 300 occupational specialties
17 and so the size of the document and the effort it
18 would take to have occupational-specific standards
19 was prohibitive. Having said that, I believe that
20 Dr. Chu, the Under Secretary of Defense for
21 Personnel and Readiness, has floated that idea to
22 his agencies should that be our goal, and maybe

1 Tom would like to comment more on that.

2 DR. POLAND: And there may be 400 as you
3 said, but they are probably collapsible into a
4 smaller number.

5 LIEUTENANT COLONEL NIEBUHR: The data is
6 lacking. It makes intuitive sense that we should
7 move in that direction, but we don't have data
8 currently on how many folks are not qualifiable in
9 their MOS because of their physical condition.
10 The databases right now look at attrition and that
11 kind of thing. So have evidence-based
12 occupational standards we would probably have to
13 turn to the civilian literature, and how
14 comparable some of these conditions are to
15 military occupations would be another area.

16 DR. POLAND: This is because of my first
17 comment, because in Olmsted County where we
18 capture virtually everything medically that
19 happens to people, 30 percent of the kids don't
20 leave childhood without a diagnosis of asthma.
21 Whether it's correct or not we could argue.
22 Twenty-six percent of them get a diagnosis of

1 depression. And you start putting that together
2 and you begin to say in a metropolitan area you've
3 got 10 people you can recruit which is a practical
4 problem for the armed services, so that's why I
5 saw the reality of what's happening before they
6 come to you will force you I suspect to say we'd
7 better do the research because clearly nowadays
8 with appropriate medications and treatment,
9 somebody with asthma is no different than somebody
10 who never had a diagnosis of asthma. It might be
11 true for other conditions.

12 LIEUTENANT COLONEL GREIG: Yes, sir.
13 With respect to the question on occupational-
14 specific qualification, there are mixed emotions
15 about that from a service point of view, and
16 certainly from what's going on in Iraq right now,
17 every person needs to be able to be a soldier
18 because you don't know where the front is, so
19 there needs to be a certain baseline level of
20 performance, if you will. That line hasn't been
21 evidence-proven, so can a one-armed guy function
22 as well as a guy with two arms to carry an M-16?

1 That's kind of an extreme example, but those are
2 some of the fears because of the movable front
3 with a situation like Iraq.

4 However, at the same time, you're
5 absolutely right, can we broaden the market by
6 looking at what people are capable of doing? But
7 that also reduces the flexibility of being able to
8 move people around to certain areas and positions.
9 So it's an area of contention and needs to be
10 looked at.

11 LIEUTENANT COLONEL NIEBUHR: In answer
12 to your second question if I could real quickly, I
13 think just to paraphrase it might be the issue of
14 comorbidity. That was addressed in the last talk
15 and again comes back here. Looking at asthma, for
16 example, we all know that there are Olympic Gold
17 Medalists with asthma who were using their
18 inhalers at poolside. So it seems to be that it's
19 not just your pulmonary function test that are
20 important, but it is other criteria. The
21 literature would suggest that mental illness is
22 correlated with asthma, so if you have asthma plus

1 a mood disorder or some other mental illness,
2 perhaps your natural survival in athletics as well
3 as in the military would be affected, and that
4 kind of makes logical sense. Likewise, what is
5 your physical fitness and your motivation to serve
6 in the military. We don't have a motivationometer
7 that we can apply to folks. Frequently they're
8 coming to the MEPS station as -- I shouldn't say
9 frequently. Anecdotally people say that they are
10 coming as a last option kind of thing, and if
11 that's the case, then you would assume that their
12 motivation is relatively low as opposed to
13 somebody else who is coming because their lifelong
14 aspiration was to be a Marine.

15 I did want to make you aware of what the
16 criteria are in the components of the ARMS test
17 and to make that the point that the Harvard Five-
18 Minute Step Test has been around since the 1940s
19 and 1950s and it is not in our population, but it
20 is validated against the VO2 max which also came
21 up earlier on. So this potentially could be a
22 surrogate if you will field expedient of a

1 validated measure of aerobic fitness. I will
2 caveat to say it's never been validated against
3 VO2 max in a military applicant population. I
4 believe it was med school students at the Harvard
5 Performance Laboratory who was the primary
6 validation group, and it certainly has not been
7 validated in overweight or over body fat
8 applicants. So we would love to do that. We have
9 tried to approach USARI (?) about doing that and
10 so far haven't gotten it there. But I do want to
11 let you know that it was chosen because there is
12 some literature that it is correlated with the VO2
13 max, and the other two components you can see on
14 the slide.

15 DR. POLAND: Dr. Lednar?

16 DR. LEDNAR: Dave, thanks for this
17 presentation and in the usual fashion of getting
18 us to stretch our minds. As Dr. Parkinson would
19 say since he's not here, I guess I'd share what I
20 would perceive as kind of a thought leader way of
21 thinking about this that may be relevant to the
22 whole aspect of accession. If we think of what

1 the goal of these accession standards might be,
2 and that is to have the right kind of criteria to
3 bring into the military those who can succeed at
4 the military's mission most simply, and while the
5 obvious dimension is a physical requirements kind
6 of one, there are two other dimensions that are
7 becoming increasingly important in the civilian
8 world and I think they're very relevant in the
9 military function as well. The other two are the
10 cognitive demands of work, and the interpersonal
11 demands of work. None of us works as an
12 autocratic individual unless you're at the highest
13 levels of society, so we need to be able to get
14 along with people, and the military performs as a
15 team.

16 When we think about the armaments, the
17 weaponry, the technologies that are being
18 developed and then fielded, and I have not sat in
19 a tank recently, but I'm told that it is as
20 complex as flying a 747 in terms of the
21 instrumentation on the console. This is very,
22 very cognitively challenging, and then you get

1 into a battlefield environment where all kinds of
2 hell is breaking loose, you've got to be able to
3 process information and make the right decisions
4 and take the right actions very, very quickly. So
5 it is more than just the brute strength, the
6 ability to push a rock, there are these other
7 dimensions.

8 We also are not very sophisticated at
9 how do you assess not only the requirements
10 cognitively or interpersonally of work and then
11 how do you evaluate people coming in whether it's
12 to a civilian job or to the military, but I think
13 this may be an area of research that could be very
14 practical that would help first of all the
15 military and would also have other broader
16 applications throughout working populations.

17 LIEUTENANT COLONEL NIEBUHR: I certainly
18 agree, and the Army Research Institute Assessment
19 of Individual Motivation AIM test addresses the
20 nongnitive across six domains all of which
21 involve executive functioning and one specifically
22 on sociability. We are hoping to partner with

1 them to look at these subscales. Right now they
2 have looked at the aggregate score and the folks
3 who have a higher score do very well in terms of
4 attrition, but we are very excited about
5 systematically assessing these noncognitive
6 domains. And probably we wouldn't envision a
7 future noncognitive domain standard regulation,
8 but probably more in the concept of looking at
9 people in the composite or multivariate since so
10 that you might have a couple of DQs but a couple
11 of things in your advantage so that in a
12 multivariate model at the MEPS station, in I don't
13 know what, Tom, 2020 or something like that, you
14 would get a risk profile that would look at you in
15 the composite sense. So you might have a bad knee
16 or this or that, but you're extremely motivated,
17 you're very bright, and you're highly sociable,
18 and then a decision might be made in a systematic
19 fashion.

20 DR. POLAND: Dr. Shamoo?

21 DR. SHAMOO: Thank you. I want to add
22 to this discussion a moral component to it. We've

1 talked about physical characteristics, psychiatric
2 characteristics, for our soldiers, and we also
3 heard that there are no frontlines which means the
4 moral decision of each individual soldier is
5 equally important. I have no doubt that the
6 overwhelming majority of our youngsters are moral
7 and have good value systems. However, for similar
8 reasons that we think a certain percentage of them
9 have some kind of physical disorder, also a
10 certain percentage have moral defects due to their
11 upbringing or the society they lived in. I'm not
12 talking about pathological because you could do
13 nothing about it. I won't even mention the stats
14 because it will floor you, our high-schoolers and
15 those in college how many of them will tell a lie
16 percentage-wise or cheat percentage-wise is
17 staggering. It's not the 5 to 10 percent that you
18 and I hope for.

19 But this is where our soldiers come
20 from, and I would like to see in the screening
21 some moral component really into that screening
22 into that behavior because it will have an impact

1 on how they behave in this current day of world
2 wars basically which is no longer frontline and
3 just lob a rocket because that one-man, one-woman
4 decision where that decision is between him and
5 his conscience and God and that's it, and there
6 may not be anybody else there looking. However,
7 the consequences of what the action of that
8 individual soldier will be, will be big. Piling
9 five nude prisoners, it was a big scandal. And
10 I'm not saying we should eliminate those people
11 who show any behavioral deviation, maybe a few
12 hours of discussion with them will reduce that
13 percentage of those potentially immoral
14 individuals which you are putting them under
15 stressful conditions with very powerful equipment.

16 LIEUTENANT COLONEL NIEBUHR: That is not
17 area of expertise obviously, and I will defer to
18 my colleagues from Personnel and Readiness, but I
19 believe that the DOD answer would be that the
20 moral screen right now is a criminal background
21 check that's done on all military applicants, and
22 you should know that there are moral waivers if

1 you don't already from reading "The Washington
2 Post" and that kind of thing. So just because
3 you're disqualified for having a record doesn't
4 mean you can't come in. You are evaluated on an
5 individual basis and you write a statement, and
6 your mother and your employer, et cetera. So
7 there are moral disqualifications based on your
8 criminal record, and there are moral waivers. I'm
9 sure that's not satisfying to you, but I don't
10 know if anybody from P&R wants to add anything to
11 that.

12 LIEUTENANT COLONEL GRIEG: If I may, on
13 this discussion particularly with looking at
14 broadening the range of accession standards, I
15 would like to bring it back to the question that
16 was brought to the Board and to take a look at not
17 just how can we broaden the standards and bring
18 more in, but what is the impact on the long-term
19 prospects of a service member's career and how is
20 that going to play out 10 to 15 years from now if
21 they perhaps have a claim for a disability? We
22 need to be able to take a look at both what goes

1 in and what comes out of the service as well, and
2 I would like to bring that point back so that we
3 can again take a look at the questions to the
4 Board.

5 DR. POLAND: To some degree though you
6 already do this. Your requirements for a pilot,
7 for a SEAL, for a baker are very different, and
8 you need them all, you know you'll always need
9 them all, and they function probably quite well
10 with those very different standards. So
11 conceptually you do it already, maybe without an
12 evidence base. Dr. Lednar?

13 DR. LEDNAR: I may be taking the
14 discussion away, but I would like to share again
15 an alternative view that was shared with me that
16 may have some applicability. It has to do with
17 our natural inclination given our training in the
18 health care professions to approach things in a
19 diagnostic way, what's the CPT code for the
20 procedure we perform or the ICD code for the
21 statistical summary. So we're approaching things
22 in kind of a black and white, yes/no, bit by

1 pathology present/absent way. The example that
2 was shared with me was attention deficit
3 hyperactivity disorder. I have no idea where that
4 stands in terms of accession or retention, but the
5 thought was that can be approached as a diagnosis,
6 a pathology, one for which medication should be
7 applied and call that success.

8 There is an alternative view of that
9 same input data of attention deficit hyperactivity
10 disorder and that is don't think of it as a
11 diagnosis, think of it as a trait, as a collection
12 of functionalities of a person. If you think of
13 it that way and you think of what an ADD kind of
14 person would have, they tend to not be able to
15 stay on topic very long, they do tend to be able
16 to fix and focus very quickly, they tend to be
17 people whose mind jumps around on multiple topics,
18 call it fix and focus rapidly changing, and if you
19 had that trait, might not that be a functional
20 advantage in certain kinds of work settings like
21 being a plaintiff's attorney, like being a chief
22 executive officer of a global multinational

1 corporation? Maybe being a four-star general. So
2 again as we're thinking about what are the
3 requirements of work and how do we maximize this
4 fit between the military's needs across the bakers
5 and across the pilots, and we're also in an
6 environment where the resource of inputs,
7 accessions is constrained, how do we work with
8 that in a reality for success?

9 We also have to be fully cognizant of
10 what are the downstream effects on retention and
11 everything else, but I think the DOD has shown
12 itself capable over the years of thinking in a
13 very innovative way to meet the military's needs
14 and this might be a good time to do it yet again.

15 DR. OXMAN: This may be beyond the scope
16 of what you want to ask, but from my VA
17 perspective it's an important component. That is,
18 what is the downstream cost of a change in the
19 standards for accession on the number of people
20 who are going to be claiming disability and
21 getting disability on separation, and I think
22 that's an important component and is a major part

1 of the price tag.

2 LIEUTENANT COMMANDER LUKE: I just want
3 to make an observation that the DOD has used
4 various different attempts at determining
5 suitability for service and generally with pretty
6 good success, but at times, frankly, disastrous.
7 In 1941 there was a psychological screening
8 program that essentially crippled the U.S. Army's
9 ability to fight the war that they wanted to in
10 World War II. George C. Marshall's plan for the
11 invasion of the Europe called for 197 Infantry
12 Divisions and we only were able to muster
13 something like 97, and he said, What in the hell
14 is going on here? When he went back he found that
15 50 percent of American men who were being drafted
16 were being excluded on a psychological exam, and
17 it has real effect. What was the effect? We
18 didn't get to Berlin and we didn't get to Eastern
19 Europe first. That was the upshot of that
20 particular screening program and it had some
21 pretty significant effects. So I just want to
22 caution people that motivation and a desire to

1 serve are very important attributes if an
2 individual can make it in the armed forces, and
3 that's been recognized. And the last thing I'll
4 say is Napoleon Bonaparte said that the
5 psychological is to the physical as 5 is to 1, so
6 motivation in many cases is a great component and
7 people can demonstrate that in boot camp if we
8 give them the opportunity.

9 LIEUTENANT COLONEL NIEBUHR: I couldn't
10 agree more. I just want to comment on don't order
11 a test if you're not prepared to deal with the
12 responses you get. Any screen can be used to
13 screen in our screen out. This is the specific
14 recommendation that the National Academies of
15 Science committee that the military consider and
16 they actually went on in the report to mention
17 Prime-MD. It's a short questionnaire validated in
18 the literature that has good test characteristics
19 and predictive value. The problem is the audience
20 to which you are applying the test, how
21 representative are folks in primary care settings
22 of military applicants at a MEPS station and what

1 are the incentives in terms of how you respond to
2 your screening instrument. I think applicants for
3 service in World War II may have had a different
4 set of incentives than applicants in an all-
5 volunteer force. So you have to take a look at
6 not only the test characteristics but in the
7 population in which it was administered.

8 This Prime-MD we pretty much dismiss
9 because these folks are motivated to get care.
10 They're concerned about their health and so
11 they're presenting. So when you look at the
12 sensitivity and specificity of the instrument that
13 the NAS committee recommended, we don't assume the
14 same test characteristics in our population who
15 are presumably trying to get into the military or
16 they wouldn't be sitting at the MEPS station. So
17 I think you're absolutely right that the test has
18 got to be very robust and targeted to the
19 incentives that the population you're screening
20 have. So it's a difficult area. There's a lot of
21 if you will malingering and fit, both faking good
22 and faking bad in the military applicant

1 population, so it's a very challenging environment
2 to screen.

3 DR. POLAND: One more comment and then
4 we have other business.

5 DR. HALPERIN: Just briefly. Many of
6 the things you're talking about are continuous
7 variables, some are categorical, and let's forget
8 those. Is there a system for evaluating whether
9 there is any relationship between those continuous
10 variables as you get closer and closer and closer
11 to your cut-offs?

12 LIEUTENANT COLONEL NIEBUHR: The short
13 answer is no. The military is stuck on go, no go.
14 They have moved into red, yellow, green, which
15 they think is a tremendous improvement. I don't
16 think the accession process is in red, yellow,
17 green. Accession is still stuck in red, green,
18 and we're kind of limited in what we can add to
19 the process. You have asthma, you have a no go.
20 It's not the end of the story. You could get a
21 waiver. So we can study these folks on active
22 duty and how they do with the waiver for asthma,

1 and you can see asthma under 2000, and you can see
2 asthma is in green, red, yellow green, green being
3 good and that their survival is higher than their
4 fully qualified comparison group.

5 But what I can't tell you because of the
6 limitations of our database is do these folks have
7 mild intermittent asthma, do they have persistent
8 asthma, what is their clinical course, how many
9 medications are they on, are they on steroids. I
10 can't tell you any of that information from
11 existing data sources. So I agree with you
12 completely that the military is stuck on red,
13 green, and I think that's the MEPS of the future.
14 Tom and I have had discussions over not drinks but
15 over lunch, and we would love to see is move from
16 a categorical to a continuous and take advantage
17 of multivariant analysis, but I suspect I'm
18 preaching to the choir here.

19 DR. LAUDER: One of the standards that
20 you had on your extra slides, I just wanted to put
21 that together with what Mike Oxman said. You have
22 a maximum passing body fat of 30 for males and 36

1 for females, and that's pretty high, and Niko can
2 correct me if I'm wrong, but that's a body fat at
3 a young age where I think you're looking at long-
4 term health costs later on down the road so you
5 may want to look at that one particular thing.
6 That's fairly well played out scientifically in
7 the civilian literature.

8 LIEUTENANT COLONEL NIEBUHR: The
9 lifecycle models, and again this is not my area,
10 but in a prior job are built on annual
11 continuation rates, so from year zero to year 30,
12 but for the enlisted force there is no assumption
13 that the individual is going to survive for 10,
14 15, or 20 years, and in fact, it's a relative
15 minority of folks who survive that long. I have
16 not said it, but others have said that essentially
17 the enlisted force is built on somewhat of a
18 throwaway model, and that I know for example that
19 the Accession Command thinks that they have got a
20 green when folks complete initial training and
21 their first tour of duty which can range from 3 to
22 5 years. But Health Affairs with posing this

1 question is now talking about a paradigm shift
2 where we look at individuals over the lifecycle,
3 and in deference to the our colleagues at the VA,
4 these folks may develop chronic diseases that have
5 implications for a lifetime I think as you alluded
6 to. So this is a new arena for DOD to start
7 thinking in that respect.

8 DR. POLAND: That did seem like pretty
9 lenient standards.

10 LIEUTENANT COLONEL NIEBUHR: There is a
11 gender bias in that standard, too, by the way. We
12 can talk about that later.

13 COLONEL GIBSON: One quick comment and
14 one very short question for you, Dave. Dr.
15 Parkinson isn't here, but in veterinary medicine
16 we call that the hay ring factor, not the spatula
17 factor, and it has to do with how we save hay on
18 cattle. But the question for you, Dave, has to do
19 with what did you guys use for the gold standard
20 for this, the validity testing of your instruments
21 in your psychiatric screening? It's an important
22 issue because as we go forward with neuro-cog

1 testing as it looks like we're going to do
2 relative to its impact on TBI and PTSD, it seems
3 as though repeatability and reliability of the
4 question versus external validity may be an
5 important point.

6 LIEUTENANT COLONEL NIEBUHR: The two
7 contractors that developed prototypes searched the
8 literature and used the SCID, the Structured
9 Clinical Interview, as the gold standard. One
10 questionnaire was 170 items, the other
11 questionnaire was 317 items. Again, this is not
12 validated, these are prototypes, but with these
13 questionnaires as much as possible questions were
14 taken from validated instruments in the literature
15 and those instruments are always judged against
16 the SCID. As far as I know, in this arena there
17 is no other gold standard out there and there is
18 interrater variability between SCIDs by two
19 clinicians, so this is a really tough area. As
20 far as ARI and their aim, I don't believe they had
21 any gold standard that they applied it against in
22 terms of noncognitive assessment, but I'm way out

1 of my area of expertise now.

2 DR. POLAND: Thank you very much. For
3 members of the Board, the question is before us.
4 Are there any concerns about taking the question
5 on as a Board? We will take that on. Thank you
6 very much.

7 (Applause)

8 DR. POLAND: One other piece of business
9 before we break for lunch. I'm trying to find
10 where it is now. The front of Tab 8 has a memo
11 entitled "Force Health Protection for Pandemic
12 Influenza: Risk Management Models for Pre-pandemic
13 Vaccine and Antivirals." The question to the
14 Board detailed in this document carries forward
15 from recommendations provided to the Department by
16 our Select Subcommittee on Pandemic Influenza. I
17 received this a few days ago, based on my review
18 for that request, I accepted the question and will
19 assign it back to the Subcommittee on Pandemic
20 Influenza for action. In the meantime though what
21 I would ask is that the other members of the Board
22 review the question and either provide input to me

1 or Colonel Gibson today or by Email in the next
2 several days.

3 Also included, you also have a copy of
4 the Executive Summary from the DOD Pandemic
5 Preparedness Plan so that that is also available
6 to you. For the Board Members, you also received
7 an electronic copy of the full plan.

8 Is there any other discussion or
9 question regarding any of those issues? If not,
10 then Colonel Gibson can I ask you to close the
11 meeting and talk about lunch?

12 COLONEL GIBSON: Lunch will be in this
13 room next door, O'Malley's, and will reconvene at
14 2 o'clock to do the deliberations with the Task
15 Force on the Future of Military Health Care. I
16 ask you to close up your books if you possibly
17 could before you leave because we're going to play
18 musical chairs a bit for this afternoon's session.
19 The Task Force on the Future of Military Health
20 Care will be basically sitting in this area over
21 here so we will be moving some folks around.
22 Thank you very much. This session is adjourned.

1 (Whereupon, at 11:57 a.m., a
2 luncheon recess was taken.)
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1 DR. POLAND: What I'd like to do then is
2 just go around the table and have each individual
3 introduce themselves. Dr. Cassells, I'll start
4 with you and we'll work our way around.

5 SECRETARY CASSELLS: Ward Cassells, the
6 new Assistant Secretary of Defense for Health, on
7 leave from the University of Texas Health Science
8 Center in Houston where I'm a cardiologist.

9 GENERAL CORLEY: I'm John Corley. I'm
10 one of the Co-Chairs on the Task Force that will
11 be presenting to you today.

12 DR. WILENSKY: Gail Wilensky, the other
13 Co-Chair.

14 COLONEL BADER: Christine Bader,
15 Executive Secretary for the Task Force on the
16 Future of Military Health Care.

17 DR. LAUDER: Tamara Lauder, physical
18 medicine and rehabilitation, member of the Defense
19 Health Board.

20 DR. LEDNAR: Wayne Lednar, Vice
21 President and Director of Corporate Medical,
22 Eastman Kodak, Rochester, New York.

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1 DR. MCNEILL: I'm Mills McNeill. I'm
2 from the Mississippi Department of Health and I'm
3 a member of the Defense Health Board.

4 DR. PARISI: Joseph E. Parisi, Mayo
5 Clinic, Rochester, Minnesota.

6 DR. LOCKEY: Jim Lockey, outpatient
7 pulmonary disease, University of Cincinnati, Board
8 Member.

9 DR. OXMAN: Mike Oxman, Professor of
10 Medicine in Pathology, University of California,
11 San Diego, Board Member.

12 DR. PARKINSON: Mike Parkinson,
13 Executive Vice President and Chief Medical Officer
14 of Lumenos, which is a subsidiary of WellPoint.

15 DR. PRONK: Niko Pronk, Vice President,
16 Health and Disease Management, Health Partners,
17 Minneapolis, Board Member.

18 DR. SHAMOO: Adil Shamoo, Professor,
19 University of Maryland School of Medicine.

20 DR. SILVA: Joe Silva, Professor of
21 Internal Medicine, the University of California,
22 David, and Board Member.

1 DR. MILLER: Mark Miller, Associate
2 Director for Research, Fogarty International
3 Center at NIH, Board Member.

4 MR. HALE: I'm Bob Hale, Executive
5 Director of the American Society of Military
6 Comptrollers and a member of the Task Force.

7 GENERAL MYER: Dick Myers, Task Force
8 member.

9 DR. MADISON: John Madison, Task Force
10 member.

11 MAJOR GENERAL ADAMS: Nancy Adams, Task
12 Force member.

13 MAJOR GENERAL SMITH: Bob Smith, Task
14 Force member.

15 LIEUTENANT GENERAL ROUDEBUSH: Jim
16 Roudebush, Task Force member.

17 DR. HALPERIN: Bill Halperin, Chair,
18 Preventive Medicine, New Jersey Medical School;
19 Chair, Quantitative Medicine, School of Public
20 Health, and I'm a Board Member.

21 DR. GARDNER: Pierce Gardner, Professor
22 of Medicine and Public Health, the State

1 University of New York at Stony Brook, consultant
2 to the Board.

3 REAR ADMIRAL SMITH: Dave Smith,
4 incoming Joint Staff Surgeon.

5 MAJOR GENERAL KELLEY: Joe Kelley,
6 outgoing Joint Staff Surgeon, and Task Force
7 member.

8 COLONEL GIBSON: Colonel Roger Gibson.
9 I'm the Executive Secretary of the Defense Health
10 Board.

11 DR. POLAND: And I'm Greg Poland,
12 President of the Defense Health Board, Professor
13 of Medicine and Infectious Diseases at the Mayo
14 Clinic, in Rochester, Minnesota, and Vice Chair of
15 the Department of Medicine.

16 We normally do this in the very
17 beginning of our session but because in essence we
18 have convened a meeting this afternoon, we have a
19 tradition that was established when I became
20 President of the Board that prior to each meeting
21 we stand for a moment of silence which both
22 symbolic and real in terms of recognizing the

1 sacrifices that men and women in uniform perform
2 for our country and our recognition that we are
3 here to serve them.

4 (Moment of silence.)

5 DR. POLAND: If I could ask Colonel
6 Gibson then to make some administrative remarks
7 and the I will make some remarks and we'll get
8 started.

9 COLONEL GIBSON: Please sign the
10 attendance roster that's on the table over here in
11 the corner. This is a Federal Advisory Committee
12 meeting and one of the requirements for that
13 Federal Advisory Committee is that we keep track
14 of the attendees. Restrooms are located outside
15 the back door here. If you have telephone, fax,
16 copy, or message needs, please see Ms. Karen
17 Triplett or Ms. Lisa Jarrett who will take care of
18 that.

19 The next meeting of the Defense Health
20 Board will be September 19 and 20 in San Antonio,
21 Texas. At that meeting we will complete
22 deliberations on a number of open board business

1 items and receive briefings on the Defense
2 Disability System, amputee patient care, and we
3 will also tour the Amputee Center at Brooke Army
4 Medical Center.

5 The Board will also conduct a day-long
6 administrative session on September 18. As a
7 reminder, this meeting is being transcribed to
8 please speak clearly into the microphones and
9 state your name before you begin. Also, turn off
10 pagers, Blackberries, cell phones, et cetera.
11 They may interfere with the sound system.

12 Finally, my personal thanks to the staff
13 at the Holiday Inn National Airport at Crystal
14 City for their help in making the meeting
15 arrangements. Also thanks to the Defense Health
16 Board staff, Ms. Jean Ward, Ms. Lisa Jarrett, and
17 Ms. Karen Triplett, for the behind-the-scenes
18 work. And I would also add thanks to Colonel
19 Bader and her staff for the corollary work that
20 they've done in making this all happen on the
21 right day at the right time. Thank you.

22 DR. POLAND: Before we begin our

1 deliberations, I would like to thank the Co-Chairs
2 and members of the Future of Military Health Care
3 Task Force. The Task Force functions as a
4 subcommittee of the Defense Health Board and
5 therefore is directed by the Federal Advisory
6 Committee Act. We are required to deliberate the
7 Task Force's findings and recommendations in an
8 open session as we are doing.

9 Since their appointment by the Secretary
10 of Defense on 12 December 2006, the Task Force has
11 been fully engaged in gathering information to
12 fulfill their charge of providing an assessment of
13 and recommendations for sustaining the military
14 health care services being provided to members of
15 the armed forces, retirees, and their families.
16 The congressional language that directed the
17 establishment of the Task Force and define the
18 element of its charge are available to the Board
19 Members under Tab 7 of our notebook.

20 I would also like to personally comment
21 the efforts of the Task Force and their staff for
22 all of their hard work.

1 I speak for the entire Board when I say
2 that we believe sustaining medical benefits for
3 all DOD beneficiaries is an absolute necessity
4 with long-term national-security implications.
5 The history of this country is that back in the
6 1600s in the Plymouth Colony, among the first laws
7 passed were the laws protecting the medical
8 benefits in essence of those involved at the time
9 in the Pequot Indian Wars, so there is a long
10 history in our country of providing for those who
11 serve.

12 Health care finance and delivery is
13 complex as we all recognize at any level and
14 exponentially more so for the largest military
15 health care system in the world. Military health-
16 care system in the world with a global reach
17 serving a population that is constantly on the
18 move.

19 The deliberations that we will undertake
20 today will focus on the Task Force Interim Report
21 which the Board all has a copy of. Due to the
22 Secretary of Defense and Congress on 31 May 2007,

1 keep in mind during these deliberations that while
2 the questions and comments during these
3 deliberations will help to inform the report, the
4 report itself is a product of the Task Force.

5 I wanted to mention that biographies for
6 the Board Members and Task Force Members are under
7 Tab 2 of our notebooks. For those who are in
8 attendance, the session is intended to provide an
9 opportunity to deliberate the draft findings and
10 recommendations in a forum that is open to the
11 public. The discussions will be between the
12 members of the Defense Health Board and the Task
13 Force on the Future of Military Health Care. If
14 time allows, we will take questions and statements
15 from the public at the end of the session. If
16 that is your desire as a member of the audience,
17 we ask that you register to speak at the desk
18 right at the end of the room here. Everyone,
19 however, has the opportunity to submit written
20 statements to the Board, and those statements may
21 be submitted today at the registration desk or by
22 email at dhb@ha.osd.mil, or may be mailed to the

1 Defense Health Board office. The address is
2 available on fliers located at the registration
3 desk or you can go our website.

4 What I would like to do is first start
5 by asking the Co-Chairs for any opening remarks
6 they have, so I will ask General Corley and then
7 Dr. Wilensky to make any comments you would like.

8 GENERAL CORLEY: Good afternoon and
9 thank you, Dr. Poland and other distinguished
10 members of the Defense Health Board. Dr.
11 Wilensky, myself, as well as the Task Force
12 members who were introduced just moments ago join
13 me in presenting if you will our interim report.

14 If I could, I'd ask that you allow me to
15 provide just a brief bit of context and perhaps a
16 brief discussion of the problems set as well. If
17 we were to examine back in the 1970s a movement
18 toward our all-volunteer force, we created a group
19 of magnificent career military individuals who
20 along with the active-duty members, our
21 appropriate Reserve component, their dependents
22 have all been receiving health care and many of

1 them move into retirement increasingly so. Along
2 with that I would say that there has been a
3 commitment to very high-quality health care and
4 that has been linked to recruitment and to
5 retention this all-volunteer force.

6 As we move the clock forward, in 2006
7 the rising cost of that military health system led
8 the Department to develop a legislative proposal
9 which also included some increases in premiums,
10 the first proposed in fact in 10 years. That
11 proposal met with resistance from the Congress who
12 in turn directed the creation of this Task Force.

13 The Task Force's charter of which you
14 have a copy in the appendix to the report as
15 broadly defined addresses 10 areas, some of which
16 I will talk about. They include wellness
17 initiatives, disease management programs, the
18 ability to account for true and accurate costs of
19 military health care, and the cost-sharing
20 structure required to sustain the military health-
21 care benefits over the long term. In addition,
22 the charter requested an interim report which is

1 what we are going to present today that will have
2 preliminary findings and recommendations regarding
3 cost-sharing under a Pharmacy Benefit Program.

4 To do this, the Task Force adopted a set
5 of guiding principles that are also included in
6 the report for you, and that was really a way that
7 we began to examine and assess the recommendations
8 and try to measure them.

9 The Task Force concluded that
10 recommended changes should focus on the health and
11 well-being of the beneficiaries but so in a
12 fiscally responsible manner. Perhaps to provide
13 more detail and more specificity on the interim
14 report, I would like to introduce Dr. Gail
15 Wilensky. Dr. Wilensky is truly a phenomenal
16 resource and has been for our Task Force in terms
17 of providing both unique insight as well as
18 guidance. As you have known and have seen from
19 her and have read from her bio, she has extensive
20 experience in terms of developing public policy
21 relating to health-care writ large, its reform,
22 and to the ongoing changes in terms of the health-

1 care environment. Dr. Wilensky?

2 DR. WILENSKY: Thank you very much,
3 General Corley. I would like to note that two
4 more of our Task Force members have arrived, which
5 are Shay Assad and Mr. Henke, and that means that
6 we have 11 of our 14 Task Force members present.

7 I would like to add briefly to the
8 comments that General Corley has made. We have as
9 you can tell from the bios in your book a broad-
10 based group of experts from inside and outside of
11 the Department of Defense who are represented on
12 the Task Force. The nonmilitary members represent
13 extensive experience and knowledge in terms of
14 health-care financing and delivery as well as some
15 of the best practices that are used in business
16 and elsewhere in government.

17 Our military colleagues bring a vast
18 knowledge of the military health-care systems and
19 the systems that support it. This group has
20 functioned extremely well together assisted by the
21 very able leadership of General Corley. As
22 someone like myself who has chaired or co-chaired

1 four other commissions and task forces, my
2 experience working with General Corley has
3 exceeded my experiences in the past and I would
4 like to publicly thank him for his support and
5 help. He has also spoiled me for future co-
6 chairs, so they can stand alerted as of now.

7 We are all committed on this Task Force
8 to making sure that the best health-care system is
9 available for those who are and have served in the
10 military and for their families, and also to make
11 sure that the military medical mission is well
12 accomplished. We have approached our charge
13 recognizing the importance of achieving greater
14 efficiencies by using best practices both learned
15 in government and elsewhere in the private sector
16 and suggesting some ways that the military can
17 become yet better stewards of the enterprise that
18 it runs.

19 We also recognized the appropriateness
20 of adjusting financial incentives and cost-shares.
21 The recommendations that we have included in the
22 report that is in front of you are focused in four

1 areas, improving business and management
2 practices, altering incentives in the pharmacy
3 benefit, cost-sharing and realignment of fee
4 structures, and ensuring that TRICARE is a
5 secondary payer. Let me just summarize briefly
6 these recommendations in each of these four areas.

7 In terms of improved business and
8 management practices, we are recommending that
9 pharmacy acquisition strategies be reviewed to be
10 sure that they are written to as to allow for the
11 best business practices from the private sector,
12 and also to conduct eligibility audits regarding
13 the accuracy of eligibility measures in the DEER
14 (?) system. The second area is altering
15 incentives in pharmacy benefits. We are
16 recommending that there be a change in the co-pay
17 for prescriptions filled outside of the military
18 treatment facility. To increased use of the most
19 cost-effective alternatives, we want to encourage
20 greater outreach to be done to encourage the use
21 of the mail-order pharmacy and other best
22 practices of private companies, and will provide

1 greater specificity on precisely we think this
2 should be done in our final report.

3 With regard to the third area that we
4 were asked to opine on with regard to the interim
5 report, it relates to issues concerning cost-
6 sharing and realignment of fees. We have been
7 mindful of the need to both be fair to taxpayers
8 in addition to recognizing the years of demanding
9 service that military retirees have provided to
10 the nation. We want to be sure to continue to
11 provide generous benefits when compared either to
12 public plans or to private plans, but to recognize
13 the very large expansions in benefits that have
14 occurred since TRICARE was introduced in the mid-
15 1990s. The portion of the costs borne by
16 beneficiaries should be increased to levels that
17 are below the Federal Employees Health Care Plan
18 or those of generous private-sector plans and set
19 at or below the share that existed when the
20 program first started in 1996. Again, this is an
21 area where we will provide greater specificity in
22 our final report.

1 Increases that are made should be phased
2 in over a period of 3 to 5 year and if the
3 Congress is concerned about the impact that that
4 has on retirement pay, it could consider having a
5 one-time increase in retirement pay if it thought
6 that was appropriate. We are recommending that
7 there be an annual indexing of premiums and
8 deductibles for the under-65 retirees. Again, the
9 specificity of that will be outlined in our final
10 report. We also think there should be periodic
11 adjustments to the catastrophic cap. Again, if
12 Congress is concerned that this may have an
13 adverse effect on retiree pay, it could make a
14 one-time or several-time adjustment if it believes
15 that to be appropriate.

16 We think DOD should increase premiums
17 and cost-sharing in a manner for the under-65
18 retirees which we have dubbed TRICAP like the
19 MEDIGAP policies that wrap around the Medicare
20 program. We are also recommending that the
21 payment structure be tiered so that enrollment
22 fees, deductibles, and co-pays reflect difference

1 circumstances of retirees such as the retirement
2 pay grade, and again we will provide more
3 specificity in our final report.

4 The fourth area that we have made
5 recommendations in concerns ensuring that TRICARE
6 remains the secondary payer that it is by law. We
7 are recommending that independent audits be done
8 to ensure TRICARE is in fact the secondary payer.
9 This was true both for services provided in the
10 MTF and also with private payers who are involved
11 in TRICARE.

12 There are several areas that we will
13 explore in the future. We are presently outlining
14 them. They include looking more at the role that
15 the Reserve and Guard has played in terms of the
16 types of benefits that they receive and their
17 transitions into and off of active-duty care. We
18 will also be addressing the issues that were in
19 our charge that we have not yet addressed in the
20 interim report in some manner in the final report.
21 With that let me turn the microphone back to you.

22 DR. POLAND: Thank you very much,

1 General Corley and Dr. Wilensky. What I'd like to
2 do then is open it up for discussions and
3 questions from the Board and dialogue then with
4 the Task Force. What I'd like to do is first
5 start with any particular comments or questions,
6 and because our time is limited until about 4
7 o'clock, we are going to need to focus our
8 discussions here. First, are there any questions
9 or discussion about the guiding principles? I
10 will just start with one and wonder whether there
11 was some consideration to two things. One, trying
12 to maintain a set of benefits that are just let me
13 use the word promised at the time somebody enters
14 into military service and maintaining those
15 throughout their service. So they may change and
16 may in fact be different at different points in
17 time for different people, but when they come in
18 if they're told they could count on X. Then
19 related to that, was there any discussion about
20 differential benefits for somebody who would be
21 injured in uniform during an act of war for
22 example that would have lifelong implications for

1 their health care?

2 DR. WILENSKY: I'll answer the first
3 part, but I would like to turn it over to one of
4 our surgeons general for the second piece of that
5 with regard to those who are injured, but also
6 they are welcome to comment on the first part as
7 well.

8 The issue about maintaining the promise
9 is one which we raised among ourselves, had many
10 discussions in open meeting in our meetings in
11 Washington but also as part of our 2-day activity
12 in San Antonio where we had a town meeting and
13 panels of individuals who were speaking before us.
14 We are very mindful of the issue as an emotional
15 and important one.

16 What we have looked at is to try to
17 within the context of the benefits that were
18 promised particularly the start of the TRICARE
19 program, looked at them in terms of a package of
20 benefits and looked at them in terms of the
21 expansion in benefits that have been made since
22 the program was initiated. It is why when we

1 talked about altering the deductibles or fees we
2 have left to not exceed the share of costs that it
3 started in 1995 but to be mindful of the very
4 substantial benefits that have occurred without
5 any changes of any sort with regard to fees and
6 co-pays.

7 As you know, my background is from
8 Medicare and financing of health care and the
9 notion of having small annual changes in
10 deductibles and premiums are integral to the
11 entitlement that exists for our senior population.
12 So while we had a lot of discussion about the
13 issue, we believed that what we are proposing now
14 with both the gradual introduction, the
15 maintenance well beyond what exists in the public
16 or private sector, and not to require a cost-share
17 that would be greater than what was initiated in
18 the 1995 is very consistent with the notion of
19 keeping the promise that individuals were given.

20 LIEUTENANT GENERAL ROUDEBUSH: Yes, if
21 might speak to your second question relative to
22 the care of individuals wounded in combat or in

1 wartime circumstances, our charter did not guide
2 us in that direction as a specific area of focus,
3 but that care would certainly fall within our
4 purview in the broader sense. The task forces and
5 the commissions that are currently looking
6 specifically at that care, to include the entire
7 spectrum of both care of the wounded and then the
8 disability evaluation process and the subsequent
9 care of those individuals will certainly inform
10 our discussions as we go forward. So while those
11 activities are more narrowly focused and I think
12 are doing some very important and valuable work in
13 illustrating what the issues are and how we can
14 best attend to them, we will be looking to those
15 bodies of work to help inform our processes to
16 assure that there is coherence and consonance
17 across the spectrum of care for all our
18 beneficiaries many of whom will have been injured
19 in combat but many of whom will have significant
20 or very serious illness and injury that would
21 certainly be cared for within the same processes
22 and activities. So all categories of

1 beneficiaries certainly be within our purview.

2 DR. POLAND: Dr. Silva, did you have a
3 comment or question?

4 DR. SILVA: I found the report very
5 interesting and very much up to date and struggled
6 with some of these problems when I used to be dean
7 -- health care system at the University of
8 California, Davis. We went through much of the
9 same logic.

10 I think the main beneficiary is the
11 American taxpayer because there are wasted dollars
12 by the way the military distributes its drugs. So
13 the mail-order business I think is a no-brainer
14 and even how one uses TRICARE and forces TRICARE
15 to be secondary and not primary, I am a little
16 concerned about the co-pay and I wanted to know
17 from the committee how raucous was the meeting
18 that was held with the enlisted panels or spouses?
19 How much heat is going to be generated?

20 DR. WILENSKY: I think there was less
21 pushback to the notion if it was regarded as
22 reasonable. We repeatedly heard acknowledgement

1 that some change in premiums were likely and the
2 question would be at what level, at what type of
3 indexing, and how quickly would it be phased in.
4 I think there has been widespread recognition that
5 zero change which has resulted by the way in
6 having individuals who were initially paying 11-
7 percent of health-care now paying 4 percent for
8 the under under-65 retirees, again that's the
9 focus of our attention, is very a unusual
10 experience in this day and age.

11 There was some discussion but very
12 interesting as it evolved over time about the
13 notion of tiering, of having different fee
14 increases or fees for individuals according to
15 their grade at retirement or some other
16 distinction. There were some group who did not
17 believe that that was appropriate, representative
18 groups, but we found far more individuals at both
19 the low end and the highest levels who supported
20 the notion as being fair and appropriate since
21 their pay when they were in the military was
22 differentiated and their pay at retirement was

1 differentiated, and this seemed very consistent.
2 But there were certainly representations from some
3 groups not to go this direction, but not the
4 majority of comments.

5 MAJOR GENERAL ADAMS: I think the
6 comment I would make is at least I think three of
7 the groups were all active duty and of course the
8 issue of co-pays is not relevant to the active
9 duty, so that really wasn't one of their primary
10 focuses in terms of communicating with us.

11 DR. POLAND: I did want to call
12 attention to one thing that I found very
13 innovative actually and I suppose reflective of
14 what happens in the private sector. That is as
15 was pointed out there had been I think four
16 expansions or so of the benefits with not
17 necessarily a long-term view to what the
18 cumulative impact of those would be, and the
19 report on page 3 calls for when making changes in
20 practice or policy, pilot studies or demonstration
21 projects should be used and I think that was a
22 fabulous idea and an innovative one. In fact, I

1 even wondered about strengthening the language and
2 saying would be required, but that's nit-picky.

3 I would hear a little bit or be informed
4 a little bit about the discussion around that
5 because it really relates to I think sort of a
6 capstone statement that occurs throughout the
7 report particularly on page 15 where it talks
8 about not diminishing the trust. That decision
9 almost gets taken out of one's hands if a
10 cumulative expansion of benefits occurs that is
11 not well coordinated and for which there are not
12 long-term projections, you have no choice but to
13 pull back from some of those. How would you view
14 that as happening? And it almost relates to an
15 idea I had for a principle of there being
16 something in place that would help guide the
17 evolution of the system. Characteristically, what
18 we all do is we set what we think is a really good
19 system in place and then tamper with it temporally
20 over time but not really in a directed, principled
21 way that allows one to predict how things will
22 evolve and what the processes used would be.

1 DR. WILENSKY: The call for pilots was
2 particularly focused to the adoption of strategies
3 that were either new to the military or new,
4 period. Actually had a discussion about whether
5 to make it mandatory as opposed to suggested and
6 one of the reasons not to do that is some of our
7 suggestions are so commonplace in our sectors,
8 either other public or the private sector, there
9 seemed to be less reason to have a pilot whereas
10 other strategies that might be thought to be
11 significantly different for this population or
12 just innovative in their own ought not to be
13 attempted without pilots.

14 The comments with regard to the
15 attention to the financial implications of benefit
16 expansions was more in the nature of a plea to the
17 Congress to be mindful of the longer-term
18 ramifications but recognizing that there really is
19 no way we can force that to occur.

20 GENERAL CORLEY: That was really what
21 was reflected if you will at the top of page 5 and
22 although principally under the Cost-Sharing

1 Realignment Fee Structure section where it says,
2 "Benefits have been expanded but it really wasn't
3 clear whether the expansions as implemented were
4 done based on some assessment of the impacts or
5 the effects." We could find no empirical evidence
6 to suggest and no one has presented themselves yet
7 to say that that was the case, there was just a
8 rapid expansion of benefits especially over a
9 given period of time. Then in fairness, there
10 were decisions on the part of the Department not
11 to make increases where they did possess authority
12 which resulted in the share basis for example that
13 Dr. Wilensky talked about before falling from an
14 11 percent to a 4 percent which was
15 counterintuitive when in the larger population
16 those percentages in increases was in fact
17 increasing or in some respects up as high as 25 to
18 28 percent.

19 DR. POLAND: Then the last of my
20 question about would it be appropriate, this one
21 focuses more on a certain set of the large charge
22 that you received, to have something in there that

1 would guide the process by which future changes
2 would be made so that 10, 15, to 20 years from now
3 we're not back, it won't be us anyway, with
4 somebody else trying to get their hands around a
5 system that had changed substantially maybe in
6 piecemeal fashion in trying to reinvent it yet
7 again.

8 DR. WILENSKY: At some level you can say
9 that that occurs now because CBO has to score any
10 legislative change if it is a change that occurs
11 through legislation.

12 It is possible although we have not
13 considered it as our group to put floors in place
14 as for example happens in the Medicare program
15 Part B premium where Congress when it was not
16 inclined to do annual increases to keep the senior
17 share constant, put a floor of 25 percent below
18 which the seniors' share cannot fall. So there
19 are ways to try to put boundaries on the financial
20 ramifications, but I think there was enough
21 sophistication around the table to recognize that
22 it is hard to effectively tell Congress it can't

1 do things, we can only try to alert people of the
2 consequences of their actions.

3 DR. POLAND: I try to do that as a
4 parent of adolescents too.

5 Another question that I have pending
6 others that come from the Board, I really pondered
7 this one, and that was the idea that evidently it
8 turns out that a number of people ineligible for
9 benefits were receiving benefits which on the
10 surface it seems like an easy fix, but as I
11 thought of it more and I want to be educated a
12 little bit here, and the Board too, we might think
13 that way from the private sector where we are in
14 fixed installations and relatively small numbers
15 of people, but I was really struck by the idea of
16 the complexity of this system and the largest
17 military health-care system I suppose we could say
18 in the history of mankind. How difficult will it
19 be to fix that part of it? I really didn't see an
20 easy solution to what seems like an easy problem.
21 It would be interesting to hear a little of the
22 discussion of that.

1 DR. WILENSKY: We don't know that it's a
2 problem. It was raised as an issue that is known
3 to exist in the private sector. We have suggested
4 two areas where we might there may be problems one
5 of which does have some empirical support and one
6 of which does not.

7 I don't think any of us were aware that
8 there is an eligibility problem with regard to the
9 DEERs system, but the fact is the types of checks
10 that occur which is checking I.D. at the time of
11 use is different from the kind of spot audits that
12 could be done to make sure that the eligibility is
13 in fact appropriate. What our recommendation is
14 to do those see whether or not there is a problem.

15 There is some evidence with regard to
16 the other area that we have suggested for a right
17 for audit that has to do with whether TRICARE is
18 truly serving as a secondary payer. The GAO has
19 indicated in the past that some of the treatment
20 that is provided through the MTF may in fact have
21 private payment available for funding. But there
22 has also been the issue that it is not clear that

1 people are reporting when they have private
2 insurance. It is a field that is frequently left
3 blank when individuals use care. So the suspicion
4 is that they may not be reporting private
5 insurance where private insurance exists, but they
6 use it some of the time and they use the TRICARE
7 Extra or Standard other times. This again is a
8 problem that Medicare faces when Medicare is
9 supposed to be a secondary payer and people who
10 are over 65 and are working with private
11 insurance. So there is a little more indication
12 there that there actually may be a problem. The
13 other was more as a best-practice strategy, we
14 ought to look and make sure there's not a problem,
15 but we don't really have any indication there is a
16 problem.

17 GENERAL CORLEY: To pile on, the thought
18 process was with an eligible population of 9
19 million people, we need to at least establish a
20 baseline. I agree and I believe the other Task
21 Force members do and even Dr. Galvin who may have
22 identified this issue for us to start with that

1 there could be an area that would potentially
2 worth an examination from a control measures
3 standpoint, from a best-business, not a best
4 health practices, but a best-business practice
5 worthy of examination.

6 DR. LOCKEY: I was just curious, in the
7 pharmacy acquisition process, and I'm not
8 knowledgeable in this area, but would that be open
9 to pharmaceutical houses within the United States
10 only or would you suggest that that should be
11 something that can go across borders?

12 DR. WILENSKY: This is an issue where we
13 are not sure whether we have a problem. There is
14 a single pharmacy benefits manager at Express
15 Scripts who holds the contract for all of TRICARE.
16 We heard from some of the other large PBMs that
17 there are provisions in the language that would
18 preclude from their viewpoint the use of best
19 practices in the private sector. We had some
20 discussion among ourselves and I think we are not
21 positive we either sufficiently understand or
22 agree whether or not that is the case. We have

1 the advantage of having Shay Assad on our Task
2 Force.

3 But we indicated that if these large
4 PBMs believe there are provisions that are
5 precluding them from doing their best practices,
6 that in and of itself may be a problem and that we
7 need to make sure that we don't have that. We had
8 heard similar generalized comments with regard to
9 some of the contracting issues in TRICARE in
10 general, just the plea to make sure that the
11 contractual language allowed for best practices
12 most integration of care. We have started now for
13 example in our meeting yesterday listening to
14 various proposals for disease management and
15 wellness and those are issues as we go forward
16 that will be both incentives in making sure that
17 incentives are aligned for best practices and that
18 contractual language allows for the adoption of
19 best practices. It quickly gets very complicated
20 and we had a little bit of dueling views of this
21 issue.

22 GENERAL CORLEY: If I can, and then I

1 might ask Shay to comment on this as well, the
2 recommendation was to go back and have an
3 assessment of the acquisition strategies and
4 that's why we're asking for an acquisition
5 strategy expert to try to provide some help to us,
6 because we don't really understand whether this is
7 a legitimate procurement process problem or
8 whether or not we had companies that testified in
9 front of the Task Force that had either an
10 inappropriate or an improper interpretation of a
11 legal provision in terms of the governing of the
12 beneficiary contract. So we did not to the first
13 portion of your question examine other countries
14 and other pharmacies. This was more acquisition
15 strategy procurement process. Shay, do you want
16 to comment on that?

17 MR. ASSAD: Yes, sir, I think that's an
18 accurate portrayal of the situation. What we're
19 going to do is most of the industrial companies
20 that testified suggested I believe that the
21 contracts were structured in a manner that
22 prevented them from implementing best practice,

1 and obviously we want to take advantage of
2 commercial best practice whenever we can. So
3 we're going to go back and examine the details of
4 our acquisition strategy as we go forward in our
5 next set of contracts to see if in fact that's the
6 case.

7 As Gail mentioned, on first blush we
8 don't think that's a problem, we think it may just
9 be an issue of interpretation, but we need to go
10 back and relook at it. In any case, we also are
11 going to expand the opportunities for companies to
12 come in and talk to us about the concerns that
13 they may have with that process so that they
14 understand it and therefore will be able to
15 compete in an environment where they feel they're
16 getting a fair shake.

17 DR. POLAND: Dr. Parkinson, and then Dr.
18 Pronk. I'm sorry.

19 GENERAL CORLEY: Just one more quick
20 response to that. There is a law that requires
21 that all of the pharmaceuticals and devices that
22 are used with military members be FDA approved so

1 that limits the amount of overseas acquisition
2 that could be looked at at the start.

3 DR. POLAND: Mike?

4 DR. PARKINSON: Thank you. Mike
5 Parkinson. I think the report is good as it
6 stands. It's a good report because it answers the
7 interim mail which was they want you to comment on
8 the pharmacy and on cost-sharing, but I just want
9 to make a comment and then about two or three
10 questions if I can. My experience in working with
11 now hundreds of companies, and I know Bob is in
12 your Task Force, and Dr. Wilensky you have a lot
13 of experience with this, is it's the tyranny of
14 the stovepipe benefit plans. Employers are now
15 realizing that if I've got PBM vendor and I've got
16 a health plan vendor and I've got a wellness
17 vendor and I've got a disease-management vendor,
18 I'm probably overpaying in every stovepipe and
19 that no one has really integrated it for me in a
20 way that makes sense to my consumer, and by the
21 way, how much does it really cost.

22 My urge to the Task Force is to be a

1 relentless purchaser with the taxpayer's dollars
2 to get rid of stovepipes and also to get rid of
3 fees and hidden things that frankly military
4 retirees and beneficiaries really don't care
5 about. What I'm concerned about, we've had some
6 conversation over here about reviewing of the
7 acquisition process because I think it's key, so
8 this is a great interim report. I love the broad
9 scope of the charge here. But in answering just
10 this narrow mail, I hope that we maintain our eye
11 on the prize which is true integration and
12 absolute efficiency that may or may not be
13 stovepipe purchasing of these benefits that we
14 have historically done under TRICARE.

15 To wit, with pharmacy I go back to that
16 in three buckets, the purchasing of the
17 pharmaceuticals themselves, the benefit design
18 around the pharmaceuticals, and third is the
19 utilization around the pharmaceuticals. What I
20 didn't see in the report is a magnitude of the
21 problem of the pharmacy purchasing. Do we know
22 what proportion of generics for example that DOD

1 beneficiaries use to relative to best-practice
2 civilian populations? Is that small delta, is it
3 a big delta? It alluded to the fact that it's an
4 issue and we are not optimizing it. Do we know
5 the dollar value of that or the proportion of
6 generics that we're shooting for?

7 DR. WILENSKY: Let me response a little
8 bit to this first part that you've raised, and I
9 think my colleagues are very sensitive to the
10 issue of the stovepipe. A decision was made for a
11 variety of reasons in the last contracting to have
12 the pharmacy benefit separate from the TRICARE
13 contracts. This will be an issue I don't know
14 where we will come out, but there obviously are
15 tradeoffs involved in terms of integration which
16 would suggest having them be part or in terms of
17 leverage of having them be together, and we will
18 have to deal with that issue. But we have already
19 started that discussion. I'm not sure how
20 specific our recommendations in that area will be,
21 but we will certainly consider that as an issue.
22 And as I've said, we have already started on

1 discussing issues such as wellness and disease
2 management and how one integrates into their plans
3 and making sure that the incentives are such that
4 if they are separate that they are aligned so that
5 you don't have a push not to do this because of
6 the financial incentives that are in place.

7 With regard to the generic issue, the
8 military as you probably know is in somewhat of a
9 different position than most other utilizers. It
10 is basically more akin to a state that's a
11 mandatory generic substitution state like
12 Massachusetts for example where the nature of the
13 formulary is where there are generics, generics
14 are used, so it's the ultimate incentive.

15 Our concern had been more with regard to
16 either making sure that there was best practice
17 with regard to preferred drugs and that the
18 tiering was appropriate. And particularly where
19 we thought there was a lot of potential which is
20 the mail order for chronic meds which has not been
21 used very extensively although there has been some
22 attempt toward outreach and there are some users.

1 So that was why our focus at this point was to go
2 for the lowest-hanging fruit available and by
3 differentiating financially as well as encouraging
4 the outreach to try to drive much higher use. The
5 question about how do you integrate better
6 prescribing into physician and hospital care is an
7 issue that we will deal with in the final report.

8 DR. POLAND: General Kelley, did you
9 want to make a comment?

10 MAJOR GENERAL KELLEY: Just to expand
11 that a little bit. Because of the mandatory
12 substitution, we have a very high use of generics,
13 even higher than most plans in states where they
14 have substitution. As far as the tiering goes, we
15 are pushing currently to use generics based on the
16 tiering, but the cost differential between the
17 tiers is such that it doesn't provide an
18 incentive. And generics may not be the best drug
19 for the patient but the patient may chose that
20 because generics have one co-pay and if there is a
21 newer drug that is only in the brand-name status,
22 it has a higher co-pay. So many of the plans that

1 we saw used a tiering based on best clinical
2 practices and because you get a better outcome,
3 overall costs are decreased, although pharmacy
4 costs may be increased, but you have a better
5 overall outcome. So that is an area that we
6 wanted to look at in greater detail also.

7 DR. POLAND: Dr. Corley?

8 GENERAL CORLEY: If I can, there is a
9 limited amount of additional information in one
10 aspect of your question I believe back to
11 utilization and point of service and why we think
12 there is a substantive delta between where we are
13 today in the Department of Defense and potential
14 best practices that exist.

15 If you look in just about the past 4 or
16 years' worth of our eligible population, we're
17 seeing of that eligible population an increase in
18 the use of the pharmacy benefit, so more people
19 are taking advantage of that benefit. Where are
20 they going in terms of point of service to obtain
21 that pharmacy benefit? Here is where I think some
22 of the statistical data is a little bit

1 disturbing.

2 If we look at areas where we have a
3 degree of control inside of our military treatment
4 facilities, getting that pharmacy benefit there is
5 decreasing and has substantively. If we take a
6 look inside of mail order, regrettably, it too is
7 going down, a bit counterintuitive in terms of the
8 testimony that we received from some others that
9 might be considered best practices.

10 Where we are seeing a remarkable
11 expansion is in the retail side and as you can
12 obviously tell, with a pretty substantial economic
13 impact there, so to one aspect of it that does
14 give you some trend information that suggests we
15 need to get after this point of service incentives
16 how we deal with the issue.

17 DR. PARKINSON: If I can just follow on
18 that because those points led right what is very
19 helpful, and again just to share our experiences,
20 in companies that I've worked work with that start
21 moving towards what I would call heavy-handed mail
22 order, mandate is too strong a word, but painful

1 incentives get pretty closer to it, the employee
2 pushback is oftentimes pretty considerable, and
3 oftentimes what we find is that giving a broader
4 array of choices with a true market exposure and
5 transparency of price is pretty well received.

6 As you know, the private sector, not the
7 health plan or the PBMs, are coming up new
8 innovative alternative delivery models called Wal-
9 Mart for \$4. It won't be too long in this rapidly
10 moving space I predict that the retailization of
11 the pharmacy outside of the PBM industry and
12 perhaps such things as General Kelley mentioned,
13 the value-based benefit designs which are all
14 about if you know anything about the consumer-
15 driven movement, it's to differentiate the things
16 that work and are evidence-based and those things
17 that are largely discretionary and not evidence-
18 based and to float those prices to whatever the
19 consumer and the doctor thinks it's worth, but
20 when you post the real price, it drops like a
21 rock.

22 So all of my comments are here about to

1 stay one step ahead of a dramatically changing
2 pharmaceutical marketplace and not be too beholden
3 to our acquisition process thinking or the current
4 vendors and stovepipes because I think this train
5 is moving very fast. As many of you know on the
6 panel, Dr. Wilensky, I don't mean to replace that,
7 but DOD could lead this movement with some
8 innovative purchasing models that are really not
9 even out there yet as much as building on the ones
10 we already have. So I think it's great.

11 The final comment is that the military
12 has led this in the past. It's called the PEC,
13 the Pharmacoeconomics Center. We were one of the
14 first to compare drug/drug because the FDA doesn't
15 do it to what works. So you've already got an
16 infrastructure inside DOD to do pharmaceutical
17 analysis and then translate that into vigorous
18 purchasing models.

19 The last question and I assume it's
20 politically off the table because it gets to much
21 press, and that is the VA purchases drugs I guess
22 very differently at the point of source of the

1 manufacturer versus the way DOD can or does do it.
2 Is that just off the table completely given the
3 current political climate around that issue?

4 DR. WILENSKY: We think it is actually
5 well reflected in the differentiation that is
6 being proposed and that exists now which is the
7 MTF and the mail order have access to the Federal
8 Supply Schedule and like the VA take over the
9 distribution costs. While the retail pharmacists
10 and the PBMs or those who would like to have that
11 contract would like to have that lower price
12 enforced by law, the fact is they don't take over
13 that distribution cost. So I think politically
14 Congress can do as it will on that, but at an
15 economic and policy level, it is hard to justify
16 enforcing a low price when the functions are
17 fundamentally different. The fact is that a
18 retail pharmacy is a more expensive distribution
19 source because the distribution costs are not
20 being absorbed. And some of the groups who had
21 not come in claimed that they could substantially
22 beat the Federal Supply Schedule anyway, and our

1 attitude was great, go for it.

2 So I think the notion of trying to
3 design to try to achieve best practices very much
4 fits in with the notion of considering a pilot
5 that would differentiate tiered payments with
6 value-based design. I am personally a big fan of
7 the value-based design and tying it with
8 comparative clinical effectiveness, but we would
9 have to be mindful that this really is not being
10 used elsewhere and it would be terrific to try it
11 and make sure that we were comfortable. It would
12 not be wise to try to impose it on a system as
13 large as the DOD health-care system.

14 DR. POLAND: Dr. Pronk?

15 DR. PRONK: Thank you. I read the
16 report with much interest and thought that
17 actually most of the focus was on financial issues
18 related to pharmacy use rather than medical-
19 management issues that really provides
20 opportunities as well. In particular I was
21 thinking about the use of PBM data that can be
22 used in terms of crafting strategies in the

1 medical-management area to stimulate the
2 appropriate use of pharmaceuticals rather than
3 seeing overuse, misuse, or underuse, such that the
4 data can be used by an intervention team if you will
5 that crafts strategies in the area of medication
6 possession ratios or compliance data can be used
7 for that. Could you tell us a little bit did you
8 discuss those kinds of approaches or do they fall
9 more under the disease-management kind of
10 strategies?

11 DR. WILENSKY: The first answer is we
12 focused where we did because we were directed by
13 the Congress to report on these issues in the
14 Interim Report, so that was a practical concern
15 that we needed to address.

16 And the answer is yes with regard to the
17 second, that is, we think that the proper or best
18 use of pharmaceuticals in support of medical
19 management is an important issue. We have already
20 begun to discuss this in the last two sessions
21 when we've dealt with wellness and disease
22 management, and we will have it as well as several

1 others areas that we will be looking at over the
2 course of the next 6 months as we prepare for the
3 final report.

4 MAJOR GENERAL KELLEY: I think that in
5 answer to that also, one of the direct things that
6 you talked about integrating and using the
7 pharmacy data either for disease management or
8 even increase the use of the TMA pharmacy, the
9 contractors felt that there were prohibitions from
10 doing that based on the current contract. That
11 may not be true and we're looking at that, but
12 that was one of the things that also was
13 addressed, that is the contract design preventing
14 because it separated disease management and
15 pharmacy benefits and health care delivery, was
16 that actually inhibiting doing the best practices.
17 That's one example of that.

18 DR. POLAND: Dr. Shamoo?

19 DR. SHAMOO: Adil Shamoo. Most of these
20 questions are on medical economics and obviously
21 they influence everything. As you all know, there
22 is a Mental-Health Task Force and I was wondering

1 if you have built in some safeguards in the
2 application of this in the future so it will not
3 perpetuate the stigma and the bias toward
4 acquisition of mental-health services.

5 LIEUTENANT GENERAL ROUDEBUSH: If I may
6 again, in some similarity to Dr. Prong's question
7 relative to the care of the wounded, the work that
8 is being done within the Mental-Health Task Force
9 I think is addressing some of those issues very
10 directly and in a way that I think again will
11 inform our deliberations and our discussions so
12 that we can assure that that's properly reflected
13 and that our deliberations and any recommendations
14 that we might provide either incorporate those
15 aspects are or assured not to impede the kinds of
16 things that I think you very correctly referred to
17 in terms of moving ahead in the area of mental-
18 health treatment and prevention.

19 DR. WILENSKY: It is also in the area
20 that the presidential commission which I also
21 serve on is looking at in a very focused way. So
22 I would hope between these two other efforts that

1 we can incorporate whatever is appropriate to make
2 sure that we not exacerbate a problem.

3 GENERAL CORLEY: Joe, do you want to
4 comment at all on the seven lines of action and
5 the integration of a number of task forces that
6 you have currently ongoing inside the Department,
7 although your question in large measure has not
8 been addressed and is not inside of the scope of
9 this charter, that is not to say that it is not
10 being assessed in other task forces. The dilemma
11 and the concern is, to Jim's point, how do we make
12 sure we have an integrated effort, how do we make
13 sure we don't impede some efforts?

14 MAJOR GENERAL KELLEY: Yes, sir. There
15 is a Senior Oversight Committee that has been
16 meeting now for 3 weeks chaired by the Deputy
17 Secretary of Defense and the Deputy Secretary of
18 the VA and all the senior leaders from the
19 departments both DOD and the services, the Joint
20 Staff, as well as the VA, and both representatives
21 from the health side as well as from the benefits
22 side. This Task Force when we were chartered did

1 not deal with VA issues, so if it was a VA issue,
2 it was outside the scope of this Task Force.
3 However, that Senior Oversight Group is within
4 those issues and so that will be the area where we
5 work on resolving those things. I think it goes
6 back to Dr. Poland's first question about are we
7 dealing with that, and the issue of differential
8 pay is probably more a VA issue, but it certainly
9 is a combined issue to be worked between the two
10 and that was an actual discussion item at the
11 meeting that was this week.

12 So those wider issues that involve
13 interagency issues are being addressed and I think
14 in the next few weeks there will be some more
15 information coming out about those, but there are
16 seven different areas that are being looked at and
17 there is a specific group that is looking at
18 traumatic brain injury and posttraumatic stress
19 disorder and in that is the whole stress
20 relationship thing and the mental health. So I
21 think that those will be addressed in that forum
22 across the departments.

1 DR. POLAND: Dr. Parkinson?

2 DR. PARKINSON: I apologize for coming
3 back again, but some more questions what I think
4 is very constructive. I would hope that the
5 demonstration authority or the demonstration
6 thoughts that you have include a major commitment
7 to at least pilot a consumer-driven model. Most
8 employers will be implementing consumer-driven
9 plans this year. They are uniquely suited I think
10 to the military philosophy of primary emphasis on
11 prevention with evidence-based care with
12 incentives, and I've provided as background
13 material to Colonel Bader some of the experience
14 that we've had in over 100 companies doing this.

15 But the importance is the total
16 transparency of the cost and that the consumer
17 sees the resources spent on their behalf as his or
18 her own whether or not they are in an HRA or
19 whether they really are in an HAS. What it does
20 is a couple of things. We only focus on
21 prescription drugs, we take over-the-counter
22 alternatives which in many cases are the same drug

1 off the table because the OTCs actually cost more
2 than the current no co-pay of a prescription drug.
3 We have seen this where essentially I'll get my
4 purple by prescription but I've got Prilosec OTC
5 which under the perverse incentives of a co-pay
6 model actually is cheaper to get the prescription
7 than the OTC which is biologically equivalent. So
8 somewhere in the discussion should be OTC
9 alternatives to the most-commonly prescribed
10 drugs, and looking at all 100 companies we look
11 at, in DOD I'm sure the top three categories of
12 drugs are some version of a purple pill which is
13 going to be your Nexium and Prilosec, that group,
14 because it is in all the companies we look,
15 antidepressants, antienceolitics (?) and sleeping
16 pills for which often times there is very few
17 generic equivalents and they certainly aren't
18 pushed, so it's very high, and the third group of
19 course is all your statin drugs. If we can look
20 at the OTC piece equivalence to some of this in
21 the dialogue, it would be useful.

22 MAJOR GENERAL KELLEY: And I think that

1 that was looked at in the same concept that we
2 talked about, the value tiering, and so some of
3 the companies that presented to us did use a small
4 number of OTCs because of the cost differential
5 and the equivalence in treatment capability,
6 Prilosec being one.

7 DR. PARKINSON: Look into some of those.

8 MAJOR GENERAL KELLEY: Yes, and so that
9 is the value proposition.

10 DR. PARKINSON: Perfect. Thank you.

11 DR. WILENSKY: We will definitely look
12 at the HSA issue. It is an issue that we have
13 indicated we will consider. It will be important
14 to look at the likely economic effects. It is not
15 clear. As somebody who is an HSA proponent in
16 general, I think we need to do some financial
17 estimates and make sure that it would actually be
18 the soundest strategy for the particular
19 population that we have here. It is very
20 different because of the distribution of users,
21 and particularly the distribution for the under-65
22 retirees between the Prime, Extra, and Standard

1 make it not clear that you would be financially
2 better off within HSA with that population. So it
3 is something that we have on the table but I think
4 we would want to do careful both financial
5 analysis as well as look at the incentive
6 structure as the effective medical case use and to
7 make sure that was the best way to try to get
8 responsible behavior as opposed to potentially
9 other strategies.

10 DR. PARKINSON: I might just add my
11 experience in dealing with this issue, and we
12 spend some time on the Hill not surprisingly
13 during this time of the year, I think the HSA is
14 overly politicized or certainly can become overly
15 politicized particularly in a very benefit-rich
16 environment. The HRA with incentives gets pretty
17 much the same economic return and result with just
18 the consumer seeing the money spent on their
19 behalf by DOD as their own money with some
20 rollover potential and that I think is probably
21 more powerful and appropriate as it is for most
22 employers than at HSA. So down the road as you

1 get to that juncture, you may want to opt for some
2 experience and thoughts there, but I do think it's
3 very powerful because it removes the third party
4 from saying you must do a tiered anything, here's
5 the cost, here's the options, talk to your doctor,
6 and we immediately see a 15-percent reduction in
7 pharmaceutical with zero to no friction compared
8 to a PPO with three to five tiers. Pharmaceutical
9 companies and PBMs are looking at this movement
10 very suspect because it produces some dramatic
11 results.

12 DR. WILENSKY: And I think while we look
13 at it, the formulary-driven nature of the DOD
14 really is very different both in terms of the use
15 of generics but also the limited use of other
16 brand products because of the Pharmacoeconomic
17 Advisory Group that goes through a lot of these
18 activities where in other companies it is a much
19 more open vista of what you can choose, but it is
20 certainly worth exploring.

21 DR. POLAND: I also invite any other
22 members of the Task Force if any thoughts come to

1 mind regarding the questions that have been asked.

2 LIEUTENANT GENERAL ROUDEBUSH: If I
3 might just add one comment for Dr. Parkinson's
4 thoughts, I think it is a very valuable construct
5 to look at. We have had some very wide ranging
6 and I think very interesting and productive
7 discussions within the Task Force, but in some
8 aspects, HSA begins to alter the pay and benefit
9 package that the fundamental compensation package
10 certainly for active duty and retirees. So the
11 impact on that baseline to keep equity across the
12 system if in fact we took a slightly different
13 tact in that would be a consideration so it begins
14 to move out of the health benefit and into the
15 broader pay and benefit scheme. So it's just an
16 aspect that also comes into play when we discuss
17 opportunities or options such as that.

18 DR. POLAND: Dr. Silva?

19 DR. SILVA: One thing raised, a
20 question, which is how much of an audit will count
21 for false billing? Do you have any notions of
22 what that is? Because people are on military

1 bases and who's using their I.D. cards, it did
2 creep into the record as a recommendation and I
3 was surprised at that. Are there going to be
4 substantial savings here?

5 DR. WILENSKY: I don't think we know,
6 and we are not suggesting a full audit by any
7 means as much as a spot audit to see what we find.
8 We don't know that this is an issue. It was
9 suggested that it has been an issue in even the
10 most carefully structured private plans, you ought
11 not to assume it's not an issue unless you go
12 look. As I've indicated, I think the potential as
13 a secondary payer problem seems more likely, but
14 that again we are assuming a limited audit and the
15 results of a limited audit will suggest whether
16 further audit seems appropriate. If it doesn't
17 produce a lot of return or more return than the
18 cost, then we'd certainly stop. In general, we
19 don't know what we don't know.

20 DR. SILVER: Thank you.

21 DR. POLAND: Dr. Lednar?

22 DR. LEDNAR: Wayne Lednar. Obviously a

1 very complex issue and a tremendous amount of
2 understanding to get to this point. It seems that
3 for a lot of us, and I am from Eastman Kodak, we
4 get sort of depleted of our energies after we get
5 through the blocking and tackling, the mechanical
6 and structural aspects, how do we set up co-pay
7 and cost-sharing structures, how do we source it,
8 who do we buy it from, how do we distribute it,
9 mail order or retail. But I think there's an
10 opportunity here to really improve the clinical
11 quality and therefore the value to the DOD
12 beneficiaries that I hope can remain in view.

13 For example, in the area of
14 pharmaceuticals, we spend a tremendous amount of
15 money as an employer in paying for the employer
16 portion of prescription drugs including specialty
17 pharmacy. It is a very sobering and disappointing
18 figure to find out how many of those pills we paid
19 for never leave the bottle, never get out of the
20 medicine cabinet, never get taken, and we wonder
21 why clinical improvement does not occur.

22 So to the extent that whatever we

1 purchase can be more fully utilized, whether it's
2 adherence, compliance, helping patients through
3 side effects, I think there are resources that we
4 have not yet effectively engaged to help us get
5 the value out of the money we have already spent.
6 We have found that it isn't necessarily self-
7 evident how the resources of the structural parts
8 can best be put together. For example, PBMs have
9 clinical pharmacists, health plans have behavioral
10 health programs and resources, and how does it fit
11 together? And these stovepipes don't talk to each
12 other.

13 So it is really our job I think in
14 managing the system to structure it in a way that
15 the parts coordinate, and in fact in our thinking
16 to put enterprise level, supply channel level
17 performance metrics that put all elements of the
18 supply chain at risk for the same performance, the
19 performance of the combined supply chain including
20 fees at risk. So I think we have purchasing
21 technologies that if we full deploy we can get a
22 whole lot more value out of the monies that we're

1 already spending.

2 DR. WILENSKY: There is a real problem
3 that exists in the current way benefits are
4 structured for retirees. I think that is and
5 should be a matter of some importance and is of
6 some importance for the active duty and their
7 dependents. And it is also easy to see that for
8 the retiree Prime program which is MTF based. The
9 problem is that so much of the resources are and
10 will in the future be going to under-65 retirees
11 who are part-time users of the Department of
12 Defense TRICARE system because they have Extra or
13 Standard so they use the military system on a
14 part-time but not full-time basis for the most
15 part with these individuals. In addition, we have
16 even higher users of the over-65 population which
17 use Medicare and TRICARE and attempting to get
18 integrated delivery becomes extremely difficult
19 because these are individuals who depending on
20 where they live may sometimes use the Medicare
21 private system, may sometimes use the MTF, and
22 they sometimes use the VA, and it really will be

1 challenging as to how you integrate care when you
2 have people bopping in and out of systems.

3 I don't know whether this Task Force
4 will look into the issue about whether or not to
5 consider piloting models that would incent people
6 to choose a system and take their money with them
7 or otherwise try to unify where they get care, but
8 as it now stands outside of the activity and their
9 families who are not the expensive part of the
10 users and particularly not the projected expensive
11 part of the users, this is going to be a big
12 challenge to getting the best medical value and
13 the best quality of health care for individuals
14 that have these various points when they use
15 different health-care systems that have nothing to
16 do with each other and don't talk to each other.

17 DR. POLAND: Any other questions or
18 comments from the Board?

19 DR. PARKINSON: Yes, Parkinson again.
20 Dealing with many companies that do a lot of
21 business with DOD, they're delighted when they get
22 DOD retirees to come work for them because as you

1 just said, they've got a bargain and they are not
2 going to have anybody picking up their health-care
3 benefits. So I would encourage your committee
4 because you're given such a broad legislative
5 charge to think creatively about how you deal with
6 military corporate partners around innovative ways
7 to perhaps voucherize a DOD benefit that they can
8 spend. There might be something out there that is
9 not currently on the table that would be very
10 attractive to the 15 companies that you could name
11 right now off the back of your head that make our
12 weapons systems and our intelligence systems and
13 our IT systems that would be attractive and a win-
14 win because they are going to be government
15 contractors for a long period of time and yet the
16 walk away at \$460 a year versus what they're
17 spending which is \$14,500 for a family of four
18 this year is far apart, but there may be a new
19 business model out there that they create every
20 day in thinking about news ways of doing
21 contracting. So I would encourage you to do that
22 because we see the other side where frankly they

1 count on the ghosts or the antighosts or whatever
2 the military calls them, somewhere in between
3 there might be a middle ground which makes good
4 clinical sense for us and business sense for them.

5 DR. WILENSKY: If you have any ideas, we
6 are already struggling. I've struggled on and off
7 for the last couple of years with this issue and
8 have found it very vexing, so any of you who would
9 like to suggest ideas, please send them to us and
10 we'll gladly consider your thoughts.

11 DR. POLAND: Are there any other
12 questions from the Board Members, from the Task
13 Force Members? Did I miss one? Sorry, Dr.
14 Shamoo?

15 DR. SHAMOO: When there is military, at
16 least this is just a point of information since
17 I'm not as expert as you are, there is a job being
18 cost in medical care somewhere. First, is that
19 insignificant, or how does it get covered, or do
20 you just cut everybody else just like it shifts
21 towards a balloon and then everybody else gets
22 shallow?

1 MAJOR GENERAL KELLEY: For most of the
2 costs that come from a combat operation are
3 covered separately from the budget in
4 supplementals. So there is a big piece of health-
5 care dollars that are being discussed in the
6 supplemental that's on the Hill right now and has
7 been in the news. There is a big chunk of
8 providing extra care that happens which
9 predominantly related to activating Reservists and
10 Guardsmen who were not eligible for care before
11 and now are with all their families, but it also
12 includes other aspects of the care of the injured.

13 DR. POLAND: General Smith?

14 MAJOR GENERAL SMITH: That was one of
15 the main points I wanted to drive out as we active
16 besides supplemental one of the vectors that we're
17 looking is with the increased use of the Guard and
18 Reserve in more and more operational phases of the
19 military and then coming with their families where
20 are we going with that? We more had a steady
21 state, but now with the increased use of the Guard
22 and Reserve, we've got to understand of the cost

1 vectors. So some of the things that we are doing
2 in the Task Force by looking at what are possible
3 cost vectors and pressures on the military health-
4 care system as we look to the future.

5 We have already stated one was the
6 expansion of some benefits that in 1995 were not
7 there that we are now covering that we weren't
8 covering before where this vector of the Guard and
9 Reserve is more of an operational force and you
10 can be talking about a million-plus when you talk
11 about Guard and Reserve resources coming to the
12 system, there are going to be increased cost
13 vectors that we're still dealing with.

14 DR. POLAND: The Board will now open the
15 meeting for comments from the public. I think we
16 do have one. Ms. Jarrett, if you would call that
17 individual up.

18 MS. JARRETT: Steve Strobbridge?

19 MR. STROBRIDGE: My name is Steve
20 Strobbridge. I'm the Director of Government
21 Relations for the Military Officers Association of
22 America, and I also Co-Chair the Military

1 Coalition. We had testified before the Task Force
2 a little bit earlier. The one question I would
3 have is about cost, and particularly when we're
4 talking about a percentage cost-share it is easy
5 to figure out what the numerator is, it's not so
6 easy to figure out what the denominator is.

7 For example, when the government goes to
8 war and we ship the doctors to Iraq, we send more
9 people to the private sector which costs more
10 money. That is a cost of war. It's not a benefit
11 value to the beneficiary. So our concern is what
12 costs do you exclude, and did the Task Force
13 address that? In other words, what's the cost to
14 the government versus value to the beneficiary?

15 One other example, when we talk about
16 the costs that we had when TRICARE first came in
17 in 1995, that was when a large share of the care
18 was being delivered in military facilities at no
19 cost to the beneficiaries. We have subsequently
20 downsized all those hospitals and clinics, the
21 services have downsized their medical corps which
22 again drives more beneficiaries to the private

1 sector which costs the government more money.

2 On the pharmacy side, we've talked a lot
3 about the benefits of using the mail-order
4 pharmacy and that is one thing the military
5 associations have been very concerned about.
6 We're trying to hold down costs because we're very
7 sensitive that the rising cost creates pressures
8 to say let's charge the beneficiaries more. We
9 have gone to work with the Department of Defense.
10 We have approached them and said let's do a
11 partnership to try to find ways to encourage more
12 beneficiaries to use the mail-order system which
13 we all recognize saves the Department of Defense
14 much more money. The Department of Defense
15 refused to partner with us to do that.

16 Last year Congress passed a provision,
17 or the Senate did, mandating federal pricing in
18 the retail system. The administration opposed
19 that and it was defeated. The question that we
20 had to the Department of Defense is now since
21 those things cost the government hundreds of
22 millions of dollars, are you now going to deduct

1 those costs from the DOD cost-share from the
2 denominator of this fraction so that beneficiaries
3 don't have to pay a share of costs that the
4 government imposes on itself by its own
5 inefficiencies?

6 I'm just anxious to hear whether the
7 Task Force tried to identify the distinction
8 between costs the government imposes on itself
9 versus costs that actually deliver value to the
10 beneficiaries.

11 DR. WILENSKY: Let me start, and then
12 any of our other Task Force Members are welcome to
13 chime in.

14 The issue about what actual costs are in
15 the government system are not easy to allocate and
16 it is not clear to me that some of the statements
17 that you've made are correct, and in at least one
18 case with regard to the Federal Supply Schedule, I
19 reject your assumption that it was not taking
20 advantage of an efficiency by not mandating by law
21 that retail pharmacies have access to the Federal
22 Supply Schedule. It is correct that the

1 government, the administration, did not choose to
2 push for a price control on a retail system that
3 has higher costs than the MTF and the mail order
4 to be given to the retail sector. I would say
5 that is appropriate because in fact the costs of
6 providing care in that sector are distinctly
7 higher because there is not another group taking
8 over the distribution costs as occurs in these
9 other two places.

10 Furthermore, with proper incentives it
11 is sometimes observed or at least claimed by the
12 PBMs that they can do as well or better. So I
13 would say our strategy has been to both welcome
14 outreach and to suggest incenting users to go to
15 the lower-cost facilities which include the MTF
16 for pharmacy and mail order as appropriate
17 strategies.

18 With regard to the issue about how to
19 properly allocate costs and whether or not the
20 costs of care in an MTF environment are greater
21 than or lesser than the private sector, I would
22 just tell you the answer is not obvious. It is

1 very difficult to calculate because among other
2 things the MTFs are run by people who are serving
3 an alternative mission which are seeing now which
4 is military readiness and that has its own costs
5 and consequences. The issue about how much to
6 provide in terms of health care within the bases
7 and how much outside is far more complex than
8 where care used to be provided, and particularly
9 when we are looking at populations that we are
10 discussing which are the over-65 retirees and who
11 are for the most part working, what we are
12 suggesting is to begin to index on an annual basis
13 still providing care that is substantially greater
14 than the more generous private plans or the public
15 plans I think really goes against this notion that
16 we are ignoring the consequences of these actions
17 that go on in an interim process.

18 So I think we're mindful and we have
19 repeatedly indicated the importance of having the
20 Department be good stewards of trying to get the
21 efficiencies that are possible, to get better
22 value in the pharmacy area, but in other areas

1 that we will be addressing like disease management
2 and wellness programs. But at the same time, when
3 we look at the financial implications that have
4 occurred with repeated expansions in the program
5 and absolutely zero change in the costs borne, not
6 the costs shared, just the literal costs borne
7 since the program was introduced in 1995, that
8 also suggests itself as being ripe for change.

9 So we are very interested in finding
10 efficiencies where they exist, but I would not say
11 imposing price controls by law on a more-expensive
12 meets at least my economist's view of an
13 efficiency.

14 MR. STROBRIDGE: I was giving that as an
15 example rather than an assertion. The frustration
16 I think that the beneficiaries have and the reason
17 very frankly why this Task Force was the formed
18 was the lack of transparency in, as you said, the
19 very uncertainty of what should be counted in
20 calculating these costs.

21 When we went to the Department of
22 Defense to discuss these kinds of things, and I

1 think most of our associations would be in the
2 camp that we're not naïve enough to think the
3 costs are going to stay flat forever. On the
4 other hand, it was a conscious DOD decision to
5 keep those costs flat for one thing, and when
6 there is a proposal to raise fees by discussing
7 restoring a percentage of DOD costs that existed
8 at some time in the past, that is what gives rise
9 to the question what exactly are those costs and
10 what are we counting.

11 I certainly agree with you about the
12 difficulty of saying how do you attribute the
13 costs of care in military facilities when part of
14 our facility is built to care for those who go to
15 war, to address their wounds, and that's exactly
16 one of the reasons why we're saying we do think
17 that to have credibility with beneficiaries if
18 we're going to base some cost-sharing on
19 percentage of DOD costs, we do have to be clear
20 and have a reasonable and understandable agreement
21 on what costs we're talking about, what is
22 attributed.

1 I certainly concede the difficulty. If
2 it were easy, there wouldn't be a Task Force. All
3 I'm asking is that the Task Force try to address
4 that.

5 DR. WILENSKY: One correction. I said
6 over 65 when I meant that our focus is on the
7 under-65 retiree population. You have spoken to
8 us. As you know, our deliberations are open. We
9 have begun to hear from and will continue to hear
10 from individuals to help guide us in terms of
11 understanding what projections reflect what's in
12 the numerator and denominator. We have not
13 suggested tying the co-pay to a particular
14 percentage of DOD costs. What we have noted is
15 that there has been a precipitous decline which I
16 would say however you're going to define the
17 numerator or denominator would show up since the
18 numerator has been flat dollars and the
19 denominator like every health-care cost has not
20 been. So that it is directionally clear and what
21 we have proposed in our Interim Report is the
22 importance of picking an amount, deciding on an

1 index which we discussed the various indices that
2 we are inclining toward although have not chosen
3 one, and that we will make sure that at the end
4 what we have done will not make individuals worse
5 off in terms of having the share of costs that
6 were covered when this program started before the
7 several expansions are not at least that good. So
8 we have not suggested a system that literally
9 keeps it at an X percent of DOD cost irrespective
10 of what else has gone on.

11 But mainly our deliberations are open
12 and anyone who is interested should come and
13 listen to where we are and send in whatever
14 comments or otherwise involves themselves as they
15 wish.

16 DR. POLAND: I think a couple of the
17 Task Force Members also have comments.

18 MAJOR GENERAL ADAMS: I think Steve you
19 actually gave us more of an answer than you think
20 and I think it's in the second part of your
21 statement specific to the value to the
22 beneficiary. That is much easier for us to

1 quantify and I think we just heard a number from
2 the other side of the table where the value of the
3 health benefit to outside corporations is around
4 \$14,000 a year for what we in TRICARE are paying
5 around \$400 a year. So I think we need to look
6 then what is the value to our beneficiaries and
7 then what is reasonable and fair in relationship
8 to the value of the care they're receiving. The
9 health-care benefit that we're giving today is
10 much better and different than what the promises
11 were made for in the mid-1950s when we talked
12 about space-available care in military treatment
13 facilities. Now it's not space available, it's I
14 dare say universal access between the network
15 physicians at our MTFs and it's the highest
16 quality of a benefit with very few limitations.
17 So I think if we start looking, because we can
18 argue the costs and the variables, they change
19 almost daily in terms of the deliverable, but what
20 doesn't change is the value of the benefit and
21 what is represented there.

22 MAJOR GENERAL SMITH: A couple things

1 that we have been doing on this getting arms
2 around the costs in our deliberations in some
3 other meetings, one, we have had all the Surgeons
4 General in and we have discussed like efficiency
5 wedges and the processes of Six Sigma to see if we
6 can help validate some of the costs and get some
7 of this transparency understood. We have been
8 working those processes. We have also had the
9 head of the GAO and the GAO is due out this month
10 where we had demanded from the Military Coalition
11 about an independent report Senator Lindsey Graham
12 had of the costs that were going on in DOD both
13 from procedures being paid and what are we paying
14 for procedures and equipment. That report is due
15 in at the end of May according to Dave Walker
16 which will also give us an insight about the costs
17 that are in this DOD formula. And yes, we are
18 trying to understand. We know that there's war
19 costs which are going to be a little different
20 with supplementals and things, but we've also got
21 to figure out as we alluded to earlier that
22 military readiness, what does that really cost us

1 as part of the formula. It's not clear that when
2 you have to have doctors and nurses and people in
3 place what that cost is for military readiness.
4 It is not the same cost you're just having people
5 in place to do a process.

6 But those issues are being addressed and
7 we've had several meetings getting into the DOD
8 costs from several different aspects. As a matter
9 of fact, we even brought back one of the people
10 who testified at the very first hearing for
11 another session of going through costs. So I can
12 at least think of three or four times we have had
13 DOD in going through their costs and trying to
14 understand and increase our awareness of
15 understanding before we propose any type of
16 possible fee structure changes because we're
17 trying to make ourselves sure that we understand
18 as you said numerators and denominators. So there
19 are significant efforts going on in that range.

20 DR. POLAND: In the interests of time,
21 what I'm going to now ask is if Dr. Wilensky,
22 General Corley, and then Secretary Cassells have

1 any summary comments to make, I'll make some
2 summary comments, and then we'll be adjourned.

3 DR. WILENSKY: Dr. Wilensky, do you have
4 any summary? General Corley? Secretary Cassells?

5 SECRETARY CASSELLS: Thanks, Dr. Poland,
6 Dr. Wilensky, General Corley. I'm new at this but
7 I can see -- I thought I was getting a handle on
8 this so I came to this meeting. This is a very,
9 very complicated topic, but on behalf of Secretary
10 England and Secretary Gates, I want to thank the
11 members for putting so much effort into this,
12 thoughtful effort, and obviously passionate
13 effort. And to have this much time from our
14 Surgeons General and General Myers, it's fantastic
15 for health affairs. We are just delighted with
16 this help, and I'm sorry Ellen Embry can't be
17 here. I want to acknowledge her work on this.
18 And particularly Admiral Arthur who is serving on
19 two other Task Forces as well, mental health and
20 traumatic brain injury, when he really could be
21 sharpening up his putting now, and here he is
22 serving on all these task forces.

1 We have had a big strategic planning
2 process at Health Affairs over quite a few months.
3 Many of you have participated. It's triggered
4 lots of light and a little bit of heat and the
5 ball has moved pretty down the field. A couple
6 principles that really are guiding our thinking
7 right now have been alluded to already,
8 transparency as Mr. Strobbridge said, keeping our
9 casualties and their families first and foremost
10 in your minds, shifting the locus of control as
11 much as possible over time to the patient and
12 their family so that they have ownership of the
13 process so that they have more choices, and that
14 is not as strong a tradition in the paternalistic
15 military health system as it is in some other
16 systems, and Mr. Parkinson alluded to this and I
17 appreciate that.

18 As we move forward with your electronic
19 records, we hope to be more informative, more
20 transparent, and to give patients the tools they
21 need and many of them want already to drive their
22 own health care. I think you said patient-driven

1 health care, Mr. Parkinson, I'm certainly on board
2 on that. And we hope to give them for example
3 web-based tools for triage. As some of the
4 spouses said at Fort Bragg yesterday, when my
5 husband is away I don't want to spend 6 hours in
6 the ER and then go home with Tylenol, I'd like to
7 be able to get some guidance on the web and avoid
8 that visit to the ER. I'm a part-time teacher, I
9 got kids in school, this is a pressing need for
10 me. So a personalized health record that they own
11 and take control, triage tools, educational tools,
12 and I think Dr. Wilensky said incentives for
13 prevention, incentivizing certain outcomes, paying
14 not by the number of patients you've seen, but by
15 whether they're lost weight, whether they've got
16 their blood pressure down, whether their
17 cholesterol is down and their sugar, whether
18 they're getting their mammograms and their
19 vaccinations. Incentives for the doctor, for the
20 patient, for the nurse and her team, for the
21 system, these are all doable now. We're moving in
22 this direction not as quickly as any of us would

1 like.

2 When we have that system in place we
3 will see that there are opportunities beyond the
4 pharmacological, someone alluded to this and thank
5 you for that. Pharmacy is a big item in our
6 budget. Half of those ladies at Fort Bragg, I
7 think if I could get them going out and exercising
8 every day in the sun we would have stronger bones,
9 better cardiovascular fitness, better balance,
10 fewer falls. Secretary Gates has charged me with
11 reducing accidents in the military. And better
12 mood. These kinds of things are not pharmacologic
13 and we need to keep some of these things in mind.
14 So Dr. Wilensky, thank you saying you're going to
15 tackle the wellness issue, you've tackled so many
16 tough topics, and I look forward to your guidance
17 on that. Thank you, Dr. Poland.

18 DR. POLAND: As I read the report and
19 listened today, a couple of sayings came to mind.
20 One is that any idiot can make something complex,
21 but genius occurs when a complex problem is broken
22 down into actionable, feasible, focused action

1 items, and certainly that is my impression of what
2 the Board has done, or the Task Force. The other
3 saying that came to mind is that what gets
4 measured gets done, and in that regard, the Task
5 Force to my way of thinking has diligently sought
6 and examined the data and suggested some objective
7 metrics by which solutions could be devised and
8 then progress measured.

9 So from the point of view of the Defense
10 Health Board, you are to be congratulated on what
11 is and remains a complex task, we are grateful for
12 your work and your expertise, we are very
13 supportive of your interim findings and
14 recommendations, and we look forward to the final
15 report. We also stand ready to assist in many
16 manner that you as chairs or as a Task Force would
17 deem helpful. Thank you very much for your work
18 on a complex topic.

19 (Applause.)

20 DR. POLAND: Dr. Cassells, could we ask
21 you to close and adjourn the meeting?

22 SECRETARY CASSELLS: As the Delegated

1 Principal Staff Assistant and Alternate Designated
2 Federal Official for the Defense Health Board, I
3 hereby adjourn this meeting.

4 (Whereupon, the PROCEEDINGS were
5 adjourned.)

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