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ADVISORY COMMITTEE ON
BLOOD SAFETY AND AVAILABILITY

Crystal Gateway Marriott
Salon 1 & 2
1700 Jefferson Davis Highway
Arlington, VA

Thursday, August 31, 2006

The meeting, was held pursuant to notice,
on Thursday, August 31, 2006 at 9:00 a.m., Arthur W..
Bracey, M.D., Chair, presiding.

1 MEMBERS:

2 JUDY ANGELBECK, Ph.D.

3 JULIE BIRKOFER

4 M. GREGG BLOCHE, M.D., J.D.

5 WILLIAM DUFFELL, JR., Ph.D.

6 KAREN SHOOS LIPTON, J.D.

7 DAVID E. MATYAS, J.D.

8 JACK McGUIRE

9 GARGI PAHUJA, M.P.H., J.D.

10 GLENN PIERCE, M.D., Ph.D.

11 GLENN RAMSEY, M.D.

12 SUSAN D. ROSEFF, M.D.

13 S. GERALD SANDLER, M.D.

14 MERLYN H. SAYERS., M.B., B.Ch., Ph.D.

15 LINDA THOMAS

16 PEARL TOY, M.D.

17 JOHN W. WALSH

18 WING YEN WONG, M.D.

19

20 NON-VOTING EX OFFICIO MEMBERS:

21 MATTHEW J. KUEHNERT, M.D.

22 JAY S. EPSTEIN, M.D.

1 NON-VOTING EX OFFICIO MEMBERS: (CONTINUED)

2 HARVEY KLEIN, M.D.

3 CDR MICHAEL LIBBY

4 JAMES S. BOWMAN, III, M.D.

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

2 (9:00 a.m.)

3 DR. HOLMBERG: If we could have all the
4 Committee members at the table, please?5 Welcome back to the second day of our
6 meeting. I hope everyone had an enjoyable night and
7 is rested.8 We'll go through and do the roll call
9 today.

10 Dr. Bracey?

11 DR. BRACEY: Present.

12 DR. HOLMBERG: Dr. Angelbeck?

13 DR. ANGELBECK: Present.

14 DR. HOLMBERG: Ms. Birkofer.

15 MS. BIRKOFER: Present.

16 DR. HOLMBERG: Dr. Bloche?

17 (No response.)

18 DR. HOLMBERG: Dr. Duffell?

19 DR. DUFFELL: Present.

20 DR. HOLMBERG: Ms. Lipton?

21 MS. LIPTON: Present.

22 DR. HOLMBERG: Mr. Matyas?

1 MR. MATYAS: Present.

2 DR. HOLMBERG: Mr. McGuire?

3 (No response.)

4 DR. HOLMBERG: Ms. Pahuja?

5 (No response.)

6 DR. HOLMBERG: Dr. Pierce?

7 (No response.)

8 DR. HOLMBERG: Dr. Ramsey?

9 DR. RAMSEY: Here.

10 DR. HOLMBERG: Dr. Roseff?

11 (No response.)

12 DR. HOLMBERG: Dr. Sandler?

13 DR. SANDLER: Here.

14 DR. HOLMBERG: Dr. Sayers was here

15 yesterday, and had to go back on a plane to Dallas to

16 go to South Africa, so he won't be with us.

17 Ms. Thomas?

18 MS. THOMAS: Present.

19 DR. HOLMBERG: Dr. Toy is again absent.

20 Mr. Walsh?

21 MR. WALSH: Present.

22 DR. HOLMBERG: Dr. Wong is absent. Dr.

1 Kuehnert?

2 DR. KUEHNERT: Here.

3 DR. HOLMBERG: Dr. Epstein?

4 DR. EPSTEIN: Here.

5 DR. HOLMBERG: Dr. Klein is absent.

6 Commander Libby?

7 COMMANDER LIBBY: Here.

8 DR. HOLMBERG: Dr. Bowman.

9 DR. BOWMAN: Here.

10 DR. HOLMBERG: Mr. Chairman, we have a
11 quorum, with ten people, exactly, so we can do
12 business.

13 DR. BRACEY: Yesterday was a day full of
14 lots of good discussion, and we also have a number of
15 presentations today. As you know, we did have to
16 move some of the afternoon session to this morning.

17 I will ask the speakers to really try to
18 make their presentations within the time framework
19 that's been allotted, because we do need to have more
20 time for discussion, in consideration of
21 recommendations for the Assistant Secretary later
22 today.

1 Also of note is that we will have the
2 Assistant Secretary visiting this morning, but I'd
3 like to go ahead and proceed with our first presenter
4 for this morning, who will be Barbee Whitaker.

5 Dr. Whitaker is the Director of Data and
6 Special Projects for the American Association of
7 Blood Banks. She is very active right now in terms
8 of the efforts of the American Association of Blood
9 Banks, to address the important issue of
10 biovigilance.

11 She'll discuss the use of biovigilance
12 from within the U.S. blood community, as seen by the
13 AABB.

14 DR. WHITAKER: I apologize that yesterday
15 I put the wrong data on my slide, and that's what got
16 us behind time.

17 (Laughter.)

18 DR. WHITAKER: I'll try to go through my
19 slides quickly, and I'll try also not to repeat some
20 of the things that we discussed yesterday, in the
21 interest of time.

22 But what I'd like to start with, is a

1 definition of what we see as biovigilance.

2 (Slide.)

3 DR. WHITAKER: It is the detection,
4 gathering, and analysis of information regarding the
5 untoward and unexpected events of transfusion and
6 transplantation of cells, tissues, and organs.

7 That includes quite a few possible events.

8 (Slide.)

9 DR. WHITAKER: The objectives of this
10 process, this collection of information, is having
11 some early warning system of safety issues; the
12 exchange of important information; the application of
13 evidence for practice improvement, so that we can
14 actually take the information we get from this system
15 and apply it to the hospitals and the blood centers,
16 so they have a chance to improve their practice and
17 use the information that we have gleaned, and the
18 promotion of educational activities.

19 The outcome that we're interested in
20 seeing, is safer and more efficacious transfusion.

21 (Slide.)

22 DR. WHITAKER: What we saw yesterday, that

1 Matt Kuehnert talked about, were several categories
2 that we saw coming together for biovigilance.

3 The one that I'm going to talk about the
4 most today, is adverse transfusion events, but there
5 are other categories that are important for
6 biovigilance. These include: Infectious disease
7 monitoring; emerging infectious disease; and hazards
8 of donation.

9 Two of these categories -- adverse
10 transfusion events and hazards of donation -- right
11 now, we get certain information about them, and the
12 information that we gather in the United States, is
13 only fatalities. That pretty much just comes up
14 through the FDA's monitoring system.

15 Infectious disease monitoring, we do a
16 pretty good job through the CDC and through the FDA,
17 and also through the state and territorial
18 epidemiological system.

19 Matt talked a lot yesterday about the
20 emerging infectious diseases. There are systems in
21 place, but there's not an overall system of
22 biovigilance to bring it altogether.

1 ABC will be talking after me and will be
2 talking about the hazards of donation and some of the
3 ways we can look at that and put that into a system
4 of biovigilance.

5 (Slide.)

6 DR. WHITAKER: Other countries have
7 hemovigilance networks. Here's a partial listing of
8 many of the hemovigilance networks.

9 One of the things that's interesting here,
10 is that many of these countries are from the European
11 Union, because the European Union instituted the
12 requirement last year, in November of 2005, that
13 there be a hemovigilance system in place.

14 Almost every European country, like every
15 European country, has a hemovigilance network or
16 system or some sort. I'll talk a little bit about
17 that in a minute.

18 You'll see also that there are other
19 countries like Brazil, Japan, South Africa, and New
20 Zealand, that have systems, so we are, as we
21 discussed yesterday, one of the few westernized
22 countries that does not have a system.

1 (Slide.)

2 DR. WHITAKER: So, what can be learned
3 from some of these other countries? For example, in
4 Denmark, there's been a study published or a review
5 of the literature published just recently, in Vox --
6 I believe that was in your package of materials --
7 from many of these countries.

8 Denmark's review of 124 severe risk
9 reports is about six years of data, 450,000
10 components transfused. Overall, most of the risk
11 reports were associated with incorrect blood
12 component transfusion.

13 Transfusion-transmitted infection was a
14 very small amount of the risk reports. Clearly, that
15 area is not a problem anymore; that's been managed by
16 our infectious disease testing and our infectious
17 disease surveillance programs.

18 Still, we do have this issue of incorrect
19 blood component transfusion, so we have, through this
20 review, transfusion reaction, hemolytic reactions,
21 anaphylactic reaction, TRALI, and then delayed
22 reactions, after the release of the patient.

1 Of these incorrect blood component
2 transfusions, over half of them were from the sample
3 that occurred during collection. When they traced it
4 back, it was an error that happened at collection,
5 and when they looked at it even further, 80 percent
6 of them happened outside of routine procedures.

7 So, something was going on that made them
8 not follow their normal process.

9 (Slide.)

10 DR. WHITAKER: This isn't a great
11 replication of the slide. It is in your package, but
12 what I wanted to just point out here, is that it's
13 the same issue, the higher -- they're collecting the
14 same kind of data that we like to see collected --
15 hemolytic reactions; incorrect blood components
16 transfused; A-B-O incompatibility, TRALI.

17 We're looking here at Poland. This is
18 just a comparison of two different years, but,
19 looking at red cell concentrate and FFP, some of the
20 things being captured in other systems, are the
21 components that are being transfused and the types of
22 reactions.

1 (Slide.)

2 DR. WHITAKER: In the United Kingdom,
3 we've got the various reports being analyzed from
4 2004, from the SHOT system, with primarily incorrect
5 blood components transfused; acute transfusion
6 reaction; delayed transfusion reaction; TRALI.

7 Then you get further down, and this is
8 transfusion-transmitted infection, and so on, down to
9 just very low numbers of reports.

10 (Slide.)

11 DR. WHITAKER: When you break down the
12 2000 reports of incompatible red cell transfusions,
13 incorrect blood component transfused, you'll see the
14 bottom line here. This is the ABO compatibility.
15 These are quite few in occurrence; in 2004, about 19.

16 (Slide.)

17 DR. WHITAKER: The question is, do we have
18 any information from our system? In the last
19 nationwide blood collection and utilization report
20 funded by HHS and performed by the American
21 Association of Blood Banks, we did ask a couple of
22 questions about adverse reactions.

1 For 2004, we got reports of 32,128
2 transfusion-related adverse reactions. This was
3 reported by 1,322 medical treatment facilities.

4 Of this list of, 1,680 hospitals reported,
5 so we didn't get reports from everyone of the
6 hospitals, of their adverse reactions, so, clearly,
7 this is not the whole sample.

8 However, of those, we have reported 160
9 TRALIs. If you run that out with a denominator of
10 the amount of FFP, it's about four per 100,000.

11 Then, 52 ABO incompatibilities were
12 reported, and if you use the denominator of total
13 units transfused, that's about .4 per 100,000, so we
14 do have some data, and we're interested in collecting
15 more data in future surveys. I think there are lots
16 of opportunities to expand on this and to look to
17 other countries for what the particular data are to
18 be collected.

19 (Slide.)

20 DR. WHITAKER: What should we do, moving
21 forward with biovigilance? Based on what we've seen
22 of the strategic plan from the Secretary, as was

1 discussed in the May 2006 meeting, biovigilance --
2 and Matt talked about this yesterday, and it came up
3 under transforming the healthcare system -- we are
4 definitely very supportive of that, of bringing
5 biovigilance into the discussion.

6 Since the May 2006 meeting of this
7 Committee, we have had discussions with the
8 Department of Health and Human Services, particularly
9 with this group, and also with the FDA, to look at
10 definitions and purpose and vision.

11 I think this might be why Jerry suggested
12 that it might have been helpful to the panel, to have
13 had this talk before your discussions yesterday. So,
14 over the last three months, we've been looking into
15 further elaboration of definitions and looking into
16 defining that vision and purpose for biovigilance.

17 (Slide.)

18 DR. WHITAKER: We did have a meeting in
19 July where we talked about how we can move forward
20 with public and private participation in the process.
21 This meeting was held with representation from the
22 government, Health and Human Services, CDC, and

1 NHLBI, and the FDA, and also from the blood
2 collection and transfusion medicine community, AABB,
3 ABC, and the American Red Cross.

4 (Slide.)

5 DR. WHITAKER: We discussed a vision for a
6 task force that would come together and work toward
7 defining biovigilance. The vision for this task
8 force, is to design and implement a comprehensive
9 biovigilance system for the United States, that will
10 improve the outcomes of collection and transfusion,
11 and/or transplantation of blood components and
12 derivatives, cells, tissues, and organs.

13 The task force would work together and
14 bring together the important stakeholders, to put
15 together the concept, not leave anyone out, and
16 define it, so it wouldn't be a system where it would
17 be defined at a committee level; it would be a real
18 working group.

19 (Slide.)

20 DR. WHITAKER: The purpose of this task
21 force is to collect, analyze, and report on the
22 outcomes of collection and transfusion and

1 transplantation of components and derivatives, cells,
2 tissues, and organs, to provide an early warning
3 system for adverse events, and to continuously
4 improve donor and recipient safety.

5 (Slide.)

6 DR. WHITAKER: We also discussed some
7 charges for the task force. There are quite a few of
8 them here: To establish goals and directives; to
9 determine essential characteristics of the system;
10 establish the necessary data elements; system
11 specifications; a timeline with the potential for a
12 pilot next year; and an operational system within two
13 years -- well, actually three years.

14 Have standardized terminology and
15 definition; a workflow process; to figure out costs
16 and develop a budget; develop the pilot system;
17 develop a marketing and communications plan, which is
18 very important; a system for analysis and
19 recommendations; and to oversee implementation.

20 (Slide.)

21 DR. WHITAKER: The way that we discussed
22 this, is shown in this slide. The Task Force would

1 bring together this larger group of stakeholders,
2 which include AABB, AATB, ABC, AdvaMed, AHA, ARC, ASA
3 -- it's pretty much a smorgasbord of acronyms up
4 here, but we believe that everyone in this group has
5 an interest and will be invited to participate in
6 this task force, as an overseeing group.

7 There's a steering committee that will be
8 involved in Phase I of bringing together the
9 information, and, particularly this group that met in
10 July, which was the AABB, ABC, and ARC, and then from
11 the government, HHS, CDC, FDA, and NHLBI.

12 We're bringing together a working group to
13 work on some of the charges that were discussed on
14 the previous slide. We have a group of international
15 consultants that are coming from different countries,
16 who already have mature, robust hemovigilance systems
17 that we believe can advise us on the advantages and
18 pitfalls of the current system, and different
19 approaches to developing a hemovigilance and
20 biovigilance system.

21 This group would not actually be meeting
22 with us, necessarily, but working through electronic

1 communications.

2 (Slide.)

3 DR. WHITAKER: So, as far as what elements
4 of biovigilance network do we believe are important
5 to moving forward, we think that a public/private
6 partnership is essential. It essential in the
7 process of developing the system, and it's essential
8 in the implementation, and I think we had some
9 discussion yesterday about why that's the case.

10 It's very important that the reporting
11 into the system, is non-punitive, is confidential,
12 it's non-burdensome to the participants; it has to be
13 an easy process or it won't be done. I think Jay's
14 point that every reporting system is essentially
15 voluntary, is really true.

16 Predetermined common definitions for data
17 elements, is really, really important. As we've seen
18 with the initial collection and utilization system,
19 if people don't have a common definition for
20 something, it doesn't really matter if they all
21 report something, and if it's not the same
22 understanding of what they are reporting, then the

1 data doesn't mean anything.

2 Funding is still going to be a big
3 question.

4 (Slide.)

5 DR. WHITAKER: Confidentiality is very
6 important. You had a question yesterday about
7 whether we should integrate with international
8 systems, and I think it's important for us to have
9 data elements that are consistent with other systems.

10 We should be seeing what other countries
11 are reporting, but I think it's also very important
12 that we standardize on the U.S. practice of
13 transfusion medicine.

14 We have to be true to our own system, and
15 we need to map to what the international system is,
16 so, as long as our definitions are really clear, then
17 I think we will be integrated with an international
18 system, but also true to the U.S. practice of
19 medicine.

20 Then, lastly, it's very important for our
21 analysis to have a clear plan. We have to be able to
22 benefit our hospitals and patients, but we also have

1 to make sure that the data doesn't go into a black
2 hole.

3 Not only do we have to know how we're
4 going to analyze the data, but we also have to know
5 who's going to analyze data. Setting up a system
6 where we don't have a place, a venue, a partner, or a
7 group that's going to be set up to receive the data
8 and bring it back to the users at the hospital, I
9 think, will be a problem.

10 One of the very important things that we
11 have to have, going in, is a marketing plan. If we
12 can tell the hospitals, whether it's the sentinel
13 group hospitals, or the country, as a whole, they
14 need to report into it, and we'll have to be able to
15 get the data back and to use it for prediction.

16 Lastly, I think there should be an
17 opportunity for peer-to-peer exchange, so that there
18 can be -- if a community of group of -- a particular
19 group, has a problem, they should be able to ask a
20 question, like, we have a problem with labeling; how
21 do we solve this? And this is a way to find that
22 answer.

1 (Slide.)

2 DR. WHITAKER: AABB is committed to
3 working with this interorganizational task force. We
4 definitely would like to see a public/private joint
5 effort.

6 It's very important to see both hospitals
7 and blood centers represented in this process, and
8 we'd like to see a beneficial outcome to patients and
9 donors alike. Thank you.

10 DR. BRACEY: Thank you. Questions or
11 comments from the Committee? Dr. Epstein?

12 DR. EPSTEIN: I'm struck by the fact that
13 the organizational task force is doing the thing that
14 we just asked ourselves to do, and that it's more
15 likely that the task force will be able to do it,
16 over time, than we would be able to do it at our
17 meetings at less frequent intervals.

18 I'm also struck by the fact that Barbee's
19 first slide -- there is a vision statement. If we
20 could contribute our input to the vision statement,
21 and then, I think, sort of step back and get periodic
22 reports, that would help the evolution of what is

1 developed by the organization.

2 DR. BRACEY: Ms. Lipton?

3 MS. LIPTON: I also think, going back to
4 the slide about organization, that we should have
5 some discussion on the role of the Federal
6 Government. There are some things that aren't quite
7 what we were working on yesterday, that we could
8 define those and get those into the working system.

9 We were talking earlier, I think,
10 yesterday -- at least it could be an oversight
11 function.

12 DR. BRACEY: Given our charge of ensuring
13 the safety of the blood supply, we really are
14 obligated to have an oversight function for an
15 important activity like this, recognizing, I think,
16 that we'll need to have partnerships, because, again,
17 in terms of the frequency of our meetings, it would
18 be very hard for us to actually implement a system.

19 I think we have a huge role to play, as
20 far as partnerships. Ms. Thomas, did you have a
21 comment?

22 MS. THOMAS: I really enjoyed your

1 presentation, and I wish you would have been able to
2 present yesterday. It would have saved a whole lot
3 of confusion.

4 But I did have a question. Early in your
5 presentation, you mentioned incorrect blood component
6 transfusion, and you had mentioned that there were
7 errors in sampling collection. I would just like to
8 know, what is an example of a not-normal process that
9 you mentioned, where errors were occurring?

10 DR. WHITAKER: That would be an example --
11 for example, if somebody came in for an emergency
12 surgery, I mean, normally, you might have somebody
13 who would come in and -- actually, Karen?

14 DR. BRACEY: There are a number of
15 examples in terms of misadministration. You're
16 talking specifically in terms of where the unit has
17 been administered.

18 DR. WHITAKER: I think she was talking
19 about the sample collection.

20 DR. BRACEY: Well, we do know, factually -
21 - there was a report in the Wall Street Journal, of a
22 study from UCLA, looking at a period of about two

1 years or so. There were about 12,000 errors
2 identified in specimen processing within a sample of
3 about four million.

4 I don't know the figures, exactly, but we
5 do know that there are errors that occur in terms of
6 specimen collection. There are systems that can be
7 designed to try to minimize those errors, and, again,
8 what we're talking about here is having a system that
9 will be able to present data to analyze it, and then
10 give feedback to both sides, so they will be able to
11 improve their practice.

12 Dr. Sandler?

13 DR. SANDLER: I have a comment. I was
14 really going to save it for later, but it's
15 pertinent.

16 Our experience at Georgetown University
17 Hospital, matches the Danish experience that you
18 showed, which is that more than half of the problems
19 that we see with the blood banks, are really problems
20 on the nursing side.

21 That's an extremely important part of the
22 discussion that I think we're going to have coming

1 forward. That is to say, we find that a person today
2 has Group A blood, and was in the hospital a year
3 ago, and had Group O.

4 Obviously, we go to the bedside, we check
5 the wristband, we look and we see that we've
6 identified the wrong person. The key point that I
7 want to put on the table -- and we're going to get
8 back to this -- is, this isn't a blood bank problem;
9 it's a problem of the sample that was drawn for
10 infectious diseases testing, at the same time the
11 same tube was mislabeled when it went to hematology;
12 the same tube was mislabeled in chemistry.

13 When I started to approach this problem as
14 a blood bank problem, five or six years ago, it
15 drifted away. People got very interested in it, and
16 it really became a nursing service problem and a
17 hospital-wide problem.

18 As it evolved, I'm small potatoes in the
19 issue. It's a hospital-recognized problem, so as we
20 look for the geocenter of this problem, we're going
21 to be a bit of the tail wagging the dog.

22 You want to think about, do they draw more

1 samples, and draw it as they did in Denmark? That's
2 the biggest part of the Danish problem.

3 This is much, much bigger than the blood
4 transfusion service.

5 DR. BRACEY: Ms. Lipton?

6 MS. LIPTON: It's interesting that you say
7 that, because that was a large part of the discussion
8 that the group had about that data, but I think there
9 are two things: We have to draw attention to the
10 issue, and if we just sit back and say nothing's
11 going to happen unless we address, the question, we
12 talked about how to involve nursing as a profession
13 in this whole issue and ways to bring them in, but we
14 also looked to bring in the hospital administration.

15 This may ultimately, if you will, pass to
16 a different group, and the time to identify the
17 specific problem and collect data around it, it's
18 really our job at this point.

19 Whatever fixes come out of this thing,
20 maybe they're in parts of the hospital that have
21 nothing to do with blood. We have, I think, the
22 mindset and the will to solve it and shed light on

1 the problem.

2 DR. BRACEY: Ms. Birkofer?

3 MS. BIRKOFER: I can't give a medical
4 example, but I can give a real-world example. In
5 June, my father had open heart surgery. He was very
6 out of it in his bed.

7 The person came in to draw blood, had the
8 wrong last name. I was in the room, and I said,
9 wait, wait, that's Mr. Birkofer.

10 She had her needle out, ready to go, and
11 my father was in no position, if hadn't been there to
12 stop her. It's just errors.

13 And then she said, oh, you know, it
14 happens.

15 DR. BRACEY: Commander Libby?

16 CDR LIBBY: Blood bankers have to take the
17 initiative. In our experience in DOD, our office is
18 not the one that oversees the transfusions. In DOD,
19 it's generally the clinical laboratory's
20 responsibility, and they are held responsible for it.

21 But you see this awareness going on in
22 the press, that DOD oversees the transfusion safety

1 of our troops and our folks overseas. We have to --
2 me, personally -- we put a committee together for
3 risk management, to kind of deal with this issue.

4 We all agreed it had to be done, and we
5 had a group chartered, but there's a group that is
6 already together, a patient safety group, and the
7 transfusion safety piece, played a very small part of
8 the overall big picture.

9 In the last few years, the Patient Safety
10 Committee has been very active. They find issues
11 that need to be corrected, so there's this big
12 oversight of transfusion.

13 We're still small and are in the
14 background, but it's a big issue for patient safety.
15 I've been working at it for about a year, and one of
16 the things we're really trying to do, is trying to
17 get the system reporting what we do best for
18 transfusions.

19 And even that is fairly difficult. Each
20 Service's facilities is different. We just want to
21 get it reported the same way, so that it means
22 something when we gather the data. It's a long row,

1 and it's difficult.

2 DR. BRACEY: In the interest of time,
3 we'll move on, but I have one last question of our
4 guest, and that is, the AABB represents thousands of
5 hospitals, but certainly not the entire network of
6 hospitals.

7 Would this system be open to only AABB
8 members? What is the extent of the involvement?

9 DR. WHITAKER: It would certainly be open
10 to everyone. We represent most of the transfusing
11 hospitals, and I think we would keep it open to
12 everyone.

13 DR. BRACEY: Thank you.

14 DR. RAMSEY: We talked about -- obviously,
15 doing this right the first time -- phlebotomy is a
16 lot more streamlined than saving time for the
17 patient, and healthcare professionals going back and
18 correcting frequent errors that delay testing and
19 delay transfusions.

20 One of the silver linings of this process
21 is to improve everybody's capacity in the hospital.

22 DR. BRACEY: With that, let's move on to

1 the next speaker. We will have Dr. Susan Rossmann,
2 who represents the ABC's view of biovigilance.

3 Dr. Rossmann is the Chief Medical Officer
4 with the Gulf Coast Regional Blood Center in Houston.
5 She's also currently the Chair of the Scientific,
6 Medical and Technical Committee.

7 DR. ROSSMANN: Thank you. I will make a
8 few remarks while they get my slides up. Thank you
9 for the opportunity to come. I will try to be brief
10 and not repeat much of what you have heard, and,
11 instead, emphasize some small points of difference,
12 for emphasis.

13 (Slide.)

14 DR. ROSSMANN: America's Blood Centers,
15 for those of you who are not familiar with us, is a
16 large network of community-based, not-for-profit
17 blood programs. We are very horizontally organized.
18 We have 78 blood programs serving 180 million people
19 in 45 states and all of Canada, with more than 9
20 million donations annually -- about half the U.S.
21 blood supply and all of Canada's volunteer blood
22 supply. Many of our members provide other services

1 such as therapeutic services, and we recruit marrow,
2 cord, stem cell, and tissue donors.

3 I'm not going to talk at all today about
4 the tissue aspects of our members' work. We're just
5 going to be discussing the blood work.

6 I'm also not going to discuss any further,
7 the Canadian efforts, although our members are in
8 Canada, as well.

9 (Slide.)

10 DR. ROSSMANN: These are our locations
11 around the country.

12 (Slide.)

13 DR. ROSSMANN: I think it's important to
14 realize, as several people have said, that we're
15 really not talking about completely reinventing the
16 wheel here.

17 We have in our regulations, a number of
18 aspects of a hemovigilance center. We've been
19 carrying these out for years, particularly cradle-
20 to-grave traceability; fatality reports; the blood
21 product deviation reports, which are a vast trove of
22 information.

1 They certainly contain all sorts of
2 information about the kinds of issues we're talking
3 about in hemovigilance: Product retrievals; donor
4 and recipient notification, and look-back.

5 (Slide.)

6 DR. ROSSMANN: For a variety of reasons, I
7 think the focus here that is a little different, is
8 that we are talking more about the entire process.

9 The notion of hemovigilance, as you know,
10 was created in France, and there is a large European
11 network that is ongoing. In particular, we've been
12 following SHOT, which is, of course, a voluntary
13 program in the UK.

14 (Slide.)

15 DR. ROSSMANN: And we have other areas
16 that have covered hemovigilance, including the EU,
17 which we discuss here.

18 (Slide.)

19 DR. ROSSMANN: I think it's important that
20 the U.S. issues -- the FDA is now centered on
21 product. The hemovigilance efforts, in general, seem
22 to be centered more on the entire process, vein-to-

1 vein, as some people like to say.

2 Transfusion of blood and blood products,
3 from the collection, through the outcomes for the
4 recipient, this requires a lot more hospital and
5 clinical involvement, I think, than our current
6 system, which is limited more to reporting serious
7 problems, and, of course, dealing with any
8 notifications they get from blood samples.

9 We need to address, I believe,
10 hemovigilance that should address donors and adverse
11 reactions.

12 These are not included in many of the
13 European initiatives. If you look at that survey
14 that was in Vox, only a few of the programs deal with
15 donor adverse reaction, more than just infectious
16 disease testing.

17 We feel, as blood collection agencies,
18 that it's important for us to advocate for donors and
19 represent donors and make sure that we do everything
20 we can to make them safe, as well as transfusion for
21 the recipient.

22 Of course, we have blood center

1 activities, many of which we already do; hospitals'
2 patient outcome data. I think it's worth emphasizing
3 that hospitals now are not the only places where
4 transfusions are received.

5 I don't know the numbers, but certainly
6 they are the vast majority, but we issue an ever-
7 increasing amount of blood to surgical centers,
8 dialysis centers, home healthcare agencies, all in
9 keeping with the decentralization of healthcare.

10 And these aspects of transfusion, will be
11 much harder to capture, even than the events that
12 happen in the hospitals. Again, it's not a
13 tremendous number, but it is an ever-growing number,
14 and they will be much harder to track.

15 (Slide.)

16 DR. ROSSMANN: The success of this program
17 depends on definitions, and, as we have discussed,
18 active participation is very important.

19 (Slide.)

20 DR. ROSSMANN: Of all these various
21 groups, most of which have already been mentioned, I
22 would include ASH and other professionals, both

1 physicians and nursing groups that may be involved,
2 and representatives of hospitals and surgery centers,
3 who are not always involved with JCAHO, but have
4 their own professional organizations.

5 (Slide.)

6 DR. ROSSMANN: We would like to see a
7 voluntary system focused on donors and patients,
8 which address utilization, as well as adverse events,
9 data analysis, and development data, and policies
10 based on the data.

11 (Slide.)

12 DR. ROSSMANN: We do have concerns that
13 this is going to be a data dump. A lot of people
14 have an academic interest; I have an academic
15 interest, but we really need to look at the return on
16 the investment and the kind of actions we can get out
17 of the data that we can collect at minimal cost and
18 difficulty.

19 We need to refine these measurements and
20 collect more measurements as we move on, but we
21 really don't want to overwhelm ourselves at the
22 beginning and not be able to take action on these.

1 I mean, for years, we've known now that
2 specimens -- the difficulty of specimen draw and
3 identification, has been a big problem. It's taking
4 us a long time to really find effective solutions for
5 it, so we really have to work on the action part, as
6 well as collecting more information.

7 The addition of regulatory layers, is a
8 concern for our members, and also the unfunded
9 mandates is part of this.

10 Where this is going to come in the overall
11 scheme of health care costs, which, as we all know,
12 is a tremendous problem now.

13 (Slide.)

14 DR. ROSSMANN: What we plan to do in the
15 near future, is support the interorganizational
16 efforts through the AABB, and participating in the
17 analysis of data and the development of policies, as
18 appropriate.

19 We are also planning to organize volunteer
20 systems for collections, with our own members.

21 (Slide.)

22 DR. ROSSMANN: We are working at this

1 point in terms of definitions, particularly
2 standardizing them beyond the ones that we already
3 use, such as, for example, for the FDA reports.

4 I thank you for your attention. I'll be
5 glad to answer any questions.

6 DR. BRACEY: Thank you. Questions for Dr.
7 Rossmann from the Committee? Dr. Duffell?

8 DR. DUFFELL: Thank you for your
9 presentation. Just to speak plainly about this, do
10 you guys support this initiative or not?

11 DR. ROSSMANN: Yes.

12 DR. DUFFELL: The way you were talking,
13 you were raising a lot of concerns about it, rather
14 than endorsing it and saying you're willing to
15 participate, but, you know, it sounds like it may be
16 more of an observer role, possibly, than someone
17 who's advocating that there is real need for this.

18 DR. ROSSMANN: No, we believe that there
19 is -- and perhaps the phrasing was bad -- we feel
20 that the AABB is the appropriate group to do this.
21 They have a large group of stakeholders already
22 involved.

1 So, we are definitely committed to doing
2 that. As I said, we are a volunteer organization, so
3 it's not a top-down kind of decision we can make, but
4 we feel that all of our members will be willing to
5 participate, in a voluntary way.

6 DR. DUFFELL: Thank you.

7 DR. ROSSMANN: I didn't mean to be
8 waffling on that.

9 DR. BRACEY: Dr. Kuehnert?

10 DR. KUEHNERT: Thank you for the
11 presentation. I had a similar question about the
12 slide after the pledge of support for the AABB
13 effort.

14 It looks like there is an effort to
15 develop standard definitions and collect data, and I
16 just wondered, is there a plan to feed that into a
17 larger system, or are the definitions for things that
18 haven't been defined by the Biovigilance Task Force,
19 or if the Task Force doesn't end up doing the work
20 that it seems to be setting out, what's the ABC plan
21 for that?

22 DR. ROSSMANN: We are in a pretty

1 preliminary stage at this end. We didn't want to
2 recreate what the AABB Task Force will be involved
3 with.

4 We are not -- we do not see ourselves as
5 at quite the same level of involvement as the Red
6 Cross, which you will hear about next. Perhaps we
7 should have reversed these, because we're a different
8 kind of organization.

9 So, we are going to collect data that we
10 feel that we can influence or that the AABB wants us
11 to collect. We'll certainly be participating in
12 that.

13 DR. BRACEY: Question: Is there currently
14 any sharing of data between the two systems, the ARC
15 and ABC, regarding these sorts of activities?

16 DR. ROSSMANN: No. And Dr. Eder may
17 address this, but we have a lot of informal sharing.
18 For example, we've been recently working very hard on
19 the uniform donor issue questionnaire.

20 We've shared that over the years, but, in
21 terms of actual information, other than published
22 stuff, we don't have a lot of informal communication.

1 DR. BRACEY: Okay.

2 DR. ROSSMANN: I think that is actually on
3 our agenda for both organizations. As I say, I'm not
4 going to speak for the Red Cross, but I think it's on
5 our agenda to work more together, particularly on
6 these kinds of initiatives.

7 DR. BRACEY: Dr. Kuehnert, did you have a
8 followup?

9 DR. KUEHNERT: I was just going to say
10 that West Nile sort was the model for collaboration.
11 We figured out that we can aggregate data, and so
12 using that model, probably is helpful.

13 DR. BRACEY: We'll move on to the next
14 speaker. Thank you, Dr. Rossmann.

15 The next speaker is Dr. Anne Eder. Dr.
16 Eder is the Executive Medical Officer for the
17 American Red Cross. She's very busy with
18 biovigilance, hemovigilance, and certainly is the
19 National Director of Donor and Recipient Complication
20 Surveillance Program for the Agency.

21 DR. EDER: Thank you for that introduction
22 and for the opportunity to address this Committee.

1 (Slide.)

2 DR. EDER: Dr. Richard Benjamin certainly
3 wanted to attend this meeting, but is currently in
4 South Africa at the ISET meeting.

5 I do want to share with you, findings from
6 our monitoring program, as well as to showcase some
7 examples of how the data has been used.

8 (Slide.)

9 DR. EDER: The American Red Cross is shown
10 schematically on this map. We have 11 divisions
11 across the country.

12 (Slide.)

13 DR. EDER: These are further divided into
14 36 regional blood centers. We collect approximately
15 six million donations per year, and we distribute
16 more than nine million blood components per year to
17 about 3,000 hospitals across the country.

18 (Slide.)

19 DR. EDER: These 36 regional blood
20 centers, all of them investigate reported reactions.
21 This is an overview of the Donor and Recipient
22 Complications Surveillance Program, which starts in a

1 region when they receive a report of an adverse
2 reaction.

3 We monitor -- I would very much like to
4 echo and emphasize what Dr. Rossmann has said, that
5 donor safety should also be addressed by a
6 biovigilance program, because at blood centers, we
7 have an obligation to our donors, as well as to our
8 recipients.

9 Our regional blood centers, the regional
10 medical director and the donor center staff,
11 investigate all reported reactions, and take
12 immediate action, when necessary.

13 For example, if action needs to be taken
14 on blood components, all of the information is
15 compiled at the national level, at our headquarters
16 in Washington, under the umbrella of the Donor and
17 Recipient Complication Surveillance Program, where we
18 analyze the data and make recommendations.

19 As I said, I'm going to give you three
20 examples of the kind of data that we do collect.

21 (Slide.)

22 DR. EDER: Overall, our program goal is to

1 improve blood safety for recipients, minimize
2 procedure risk for donors, and detect significant
3 trends that emerge from analysis of reports of rare
4 events.

5 To say again what has been said
6 previously, this is very much at the national level,
7 sort of a sentinel event model, where we look at rare
8 events or focus on the rarer and more serious
9 reactions.

10 (Slide.)

11 DR. EDER: From the data analysis, we
12 identify possible interventions to reduce the risk of
13 complications in susceptible patient and donor
14 groups, and we monitor this data monthly as part of
15 our quality program.

16 Again, the scope of the program
17 encompasses, if I haven't already emphasized this
18 enough, donor reactions and injuries, and recipient
19 complications.

20 But we are a blood center and we are
21 focused on those reactions that are related to
22 manufacturing or donor selection, and we do not

1 receive reports of transfusion errors or
2 mistransfusion related to errors.

3 We also investigate transfusion-related
4 infections and fatalities.

5 (Slide.)

6 DR. EDER: The overview of the recipient
7 complications is shown on this slide. They can be
8 broken into two broad categories: Infectious and
9 noninfectious.

10 I will be talking in more detail about
11 TRALI and septic reactions, which you can already see
12 on the infection side. In my mind, it's only the
13 acute-type reactions, and, reactions from bacteria,
14 are, in my mind, different from the product
15 infections that result from viruses and parasites.

16 But, again, just to emphasize, we're
17 focused on those complications possibly related to
18 component manufacturing or donor selection.

19

20

21

1 (Slide.)

2 DR. EDER: As the regional blood center
3 investigates the reaction and as they complete their
4 investigation using standard procedures and
5 terminology, at the close of the investigation they
6 indicate a probability code ranging from low
7 probability that the reaction was caused by the
8 transfusion to high probability where the
9 transfusion, not only as the transfusion suspected of
10 having caused the reaction, but a donor is
11 implication and the transfusion source is confirmed.

12 (Slide.)

13 DR. EDER: This gives you a snapshot of a
14 year's worth of data.

15 (Slide.)

16 (Pause.)

17 DR. EDER: This is a snapshot of
18 complications reported in 2005. It encompasses 600
19 reports found in blue on the low probability cases,
20 which I showed you on the previous scheme where
21 transfusions and adverse events were reported to us
22 that we investigation. But at the completion of the

1 investigation it's unlikely that the transfusion was
2 responsible for the reaction. Focus on the high
3 probability cases where a transfusion source is
4 suspected or confirmed. You can see that on the non-
5 infectious side TRALI accounts for most reports.
6 Septic reactions account for the second highest
7 number of adverse reaction reports and I'll comment
8 only briefly on infectious complications with this
9 type of surveillance only a few cases of transfusion
10 transmitted infections have been identified. Those
11 cases have been linked to a transfusion in the '80s
12 or '90s, so it was realized many years later. It was
13 not identified through this mechanism, but we have
14 not identified any infections related to transfusions
15 certainly since implementation of testing the thing
16 now on septic and TRALI complications.

17 (Slide.)

18 DR. EDER: If you analyze these by
19 component transfused what you see for TRALI that most
20 TRALI reports are with FFP transfusions. Most septic
21 reports are linked to transfusions of apheresis
22 platelets. Even though we implemented back to real

1 testing on March 1, 2004, this slide show
2 schematically our current approach to bacterial
3 testings, which is that we inoculate culture bottles
4 24 hours after collection of the component, release
5 the component after an additional 12 hours then
6 monitor through outdate.

7 (Slide.)

8 DR. EDER: This shows you what we're able
9 to detect with this testing where about 1 in 5000
10 donations is found to be contaminated with bacteria.
11 These are the units that we intercept. So we
12 intercept about 85 confirmed bacterially contaminated
13 units a year. What this doesn't tell you is what
14 gets through and the strain of the DRCP isn't
15 analyzed in the rare event. We received 17 cases of
16 the septic reaction after transfusion of apheresis
17 platelets that remains negative during the incubation
18 period. Fifteen of the 17 cases were due to
19 contamination with staphylococcus suggesting skin
20 contamination. Fifteen of those 17 were linked to a
21 two-arm procedure. The DRCP was able identify that
22 the residual bacterial risk that we're seeing was

1 linked to a two-arm procedure and that was deemed
2 statistically significant.

3 What's the difference between a two-arm
4 and a one-arm procedure. One arm, right, one needle.
5 The difference is that the two-arm procedure places
6 the return line first, collects the samples for viral
7 testing, but when the inlet line is placed the tests
8 that were used did not divert to the initial sample,
9 which is the suggestive of the importance of
10 diversion of the initial sample from the inlet draw
11 line.

12 (Slide.)

13 DR. EDER: So as a result of this
14 analysis, we implemented and we have now fully
15 implemented collection sets that have inlet line
16 sample diversion. There are other ways to improve
17 platelet safety and we have also increased the volume
18 of culture that's inoculated into the bottle.

19 (Slide.)

20 DR. EDER: TRALI -- these are the number
21 of reports of TRALI that we've received, and again,
22 the low probability cases are the lighter cases. The

1 high probability are the dark tips. This just shows
2 that reports have been increasing over the three
3 years. This represents about 550 reports of TRALI,
4 which adds up to more than 60 per year of just the
5 high probability cases. If you look at it across our
6 division, you see a general relationship with the
7 size of the division, number of units they collect
8 with just a few outliers. But in general, the more
9 units you collect the more reports you receive, the
10 more units you distribute.

11 (Slide.)

12 DR. EDER: If we focus one of the
13 challenges of the surveillance system it's extremely
14 important to have not only common definitions, but a
15 common approach to investigations to make sure we
16 collect all the information. We've focused analysis
17 on reports of possible fatalities, TRALI-related
18 fatalities. The investigation was usually the most
19 complete and the reporting was usually the most
20 complete as well.

21 Both cases were linked to plasma
22 transfusions. Furthermore, the donor investigation

1 identified a donor with HLA or anti-leukocyte
2 antibodies. We have information from SHOT from the
3 United Kingdom based on a similar trend.

4 (Slide.)

5 DR. EDER: There's an increased risk with
6 high-volume plasma components. Of course, the United
7 Kingdom went to male-only plasma in 2004. That is
8 using plasma collected from male donors for
9 transfusion.

10 (Slide.)

11 DR. EDER: The next slide shows this would
12 be a feasible approach in the Red Cross when you
13 consider that most of our plasma is manufactured
14 through fractionation. It is possible to divert
15 plasma from male donors for transfusion while really
16 only having a minor impact on the distribution of the
17 NESF fractionation as further plasma component.

18 (Slide.)

19 DR. EDER: The plasma components are
20 responsible for the majority of TRALI and are
21 frequently linked to antibody positive donors. I
22 personally look forward to participating actively in

1 the ABB's biovigilance taskforce to advocate for
2 prudent measures to reduce patient exposure to
3 leukocyte antibodies and I would also comment that
4 the first step needs to be advocating for appropriate
5 utilization of blood components. We've seen too many
6 cases of TRALI where the document is indicated as
7 intended to correct I&R. There are efforts within
8 the Red Cross to collect plasma predominately from
9 male donors for transfusion.

10 (Slide.)

11 DR. EDER: My final two slides are to
12 address donor complications. We, again, have common
13 terminology that we use to describe donor
14 complications and compile donor complications and
15 analyze serious reactions. That classification
16 scheme is shown on this slide. Each category is
17 further divided.

18 (Slide.)

19 DR. EDER: The complication rate by age of
20 the donor is shown on this slide. The majority of
21 reactions, the biggest category are the vasovagal
22 type reactions. Clearly, the most common and less

1 severe reaction. The very tip, which you can't see
2 very well on this slide, at the very tip are the more
3 serious major reactions. I show you this overview
4 only to demonstrate that our youngest donors are most
5 susceptible to complications and that our efforts are
6 focused on reducing the reaction rate among our
7 youngest donors, among our high school donors.

8 (Slide.)

9 DR. EDER: This is, of course, because we
10 have an obligation to minimize the risk to our
11 donors. It's very clear and others have shown that
12 if a donor experiences even a minor reaction they're
13 less likely to return to donate blood again. No
14 surprise. If they have a major reaction, they're
15 much less likely to return.

16 (Slide.)

17 DR. EDER: I'd like to just acknowledge
18 the individuals who have -- without whom the DRCP
19 would not be possible. Beth Dy is our program
20 manager. Jean Kennedy our case coordinator, Linda
21 Chambers was medical director. I'd also like to
22 recognize the Holland Laboratory and all the regional

1 physicians at our Red Cross regional blood centers.

2 Thank you for your attention.

3 DR. BRACEY: Thank you for that great
4 presentation. It really shows how collection
5 analysis can improve outcomes.

6 I have a question that's related to your
7 sense of your facilities willingness or activity or
8 involvement in reporting. What is your capture rate?
9 What do you know about it?

10 DR. EDER: I'm sorry. What sense do we
11 have of how many?

12 DR. BRACEY: How full do you believe your
13 reporting mechanism is from your hospital facilities?
14 Again, the feedback into your system. Do you feel
15 it's the majority of cases.

16 DR. EDER: My sense is no. That any
17 passive surveillance system is going to under
18 capture, is going to be an under representation.
19 That's my opinion. A passive surveillance system
20 will have significant under reporting.

21 DR. BRACEY: There's been no system where
22 you've been able to go and validate the number of

1 reports? In other words, working with your facility
2 to assess, perhaps working with the transfusion
3 committees on how many reactions actually occurred?
4 Or was this poor reporting?

5 DR. EDER: That's been done in a spotty
6 fashion. With donor complications there's definitely
7 been efforts to call donors afterwards. If you
8 actively investigate, you identify reactions that
9 were not reported.

10 DR. BRACEY: Dr. Kuehnert?

11 DR. KUEHNERT: The only data I'm aware of
12 on that was done in the '90s where CDC investigated.
13 I think it was Rosyln Yapovi who showed that the
14 under reporting was on the order of 10 fold. I'm
15 sure it's very variable. But that's where you go
16 into a hospital and review for validation.

17 DR. BRACEY: Thanks.

18 Dr. Ramsey?

19 DR. RAMSEY: Just to point out blood
20 drawing procedures usually call for reports to the
21 blood center about problems that might be related to
22 the donor. I know that's the case for the Red Cross.

1 They do not call for reporting all allergic reactions
2 that are not related to the donor necessarily. This
3 is a very important piece of the reaction issue, but
4 not by any stretch --

5 DR. BRACEY: One point that is very
6 important that related to our discussion yesterday
7 that related to the scope of the biovigilance program
8 it seems also your reports of are of the non-
9 infectious variety.

10 DR. EDER: Right. We do not capture
11 hemolytic transfusion reactions. We receive reports
12 of allergic reactions, but certainly not -- usually
13 just the very severe ones, certainly not -- just the
14 tip of the iceberg. That's absolutely true. We are
15 focused on the event possibly related to
16 manufacturing or donor selection.

17 DR. BRACEY: Dr. Holmberg?

18 DR. HOLMBERG: You mentioned about having
19 the follow through on detection. When did you start
20 doing that?

21 DR. EDER: We have not. It was a strategy
22 for --

1 DR. HOLMBERG: Sorry. Okay. Will you be
2 adding that?

3 (Laughter.)

4 DR. EDER: We have doubled the sampling
5 volume.

6 DR. HOLMBERG: Also, you mentioned about
7 the younger donors. There are some blood centers
8 that are pushing for young donors to give. Is this a
9 strategy that the Red Cross is going to? What are
10 you doing to mitigate some of those reactions in the
11 younger donors?

12 DR. EDER: We are currently, through a
13 working group lead by Dr. Bruce Newman, a working
14 group involving many regional medical directors.
15 We're now at the stage of identifying what
16 interventions would likely be most effective to roll
17 them out more systematically. But those
18 interventions include distraction, water prior to
19 donation, looking at things that are more difficult
20 to implement like muscle tension. The group right
21 now is in the stage of considering what could be
22 done, what's most likely to have the most benefit and

1 what would be the best way to implement in a more
2 systematic way.

3 DR. BRACEY: Dr. Epstein?

4 DR. EPSTEIN: I was also puzzled about
5 your finding of bacterial infection -- you said
6 between 15 and 17 for Staph. If you've got a 12-hour
7 culture, you'd expect to see the result for Staph
8 aureus. Also, do you know when, in relation to
9 collection -- in other words, when your cultures turn
10 positive, do you transfuse the unit?

11 DR. EDER: None of the 17 cultures turned
12 positive. The 17 cases that were associated with
13 negative quality control cultures, the average turned
14 positive. The cases were at least two Staph aureus
15 and some Staph epi.

16 DR. EPSTEIN: And these were confirmed
17 cases that were cultured and found positive?

18 DR. EDER: It was a reaction consistent
19 with the septic reaction and the same organism grew
20 from the residual unit in the hospital and the
21 patient. It wasn't gel electrophoresis in every
22 case, just a convincing clinical picture in every

1 case, just an individual bag in the culture from the
2 patient.

3 DR. EPSTEIN: It's just peculiar not to
4 have been able to ultimately -- you hold the bottle.
5 Right?

6 DR. EDER: We hold the bottle for 24 hours
7 and release it after 12 hours. The cultures do not
8 come out of there during the culture period.

9 DR. EPSTEIN: When do you discard the
10 culture? At the time of transfusion?

11 DR. BRACEY: It's odd the cultures never
12 turn positive.

13 DR. KUEHNERT: I'm not sure it's entirely
14 odd.

15 DR. EDER: I would also agree that I don't
16 think it's odd. Any contaminate at low amounts --
17 why I think diversion is considerably more important
18 than an anaerobic problem.

19 DR. BRACEY: Thank you.

20 In the interest of time, we will move on
21 with our next topic. We've heard reference to this
22 particular topic, that is the utilization of blood

1 products. The presenter will be Sharon Vernon.

2 Sharon is representing HemoConcepts, a corporate
3 entity that has engaged hospitals, a number of
4 hospitals in the U.S. for blood conservation.

5 MS. VERNON: The subject we're really
6 going to focus on is the initial effort on blood
7 conservation today. Our objective to discuss their
8 impetus toward proper utilization of blood and blood
9 components.

10 (Slide.)

11 MS. VERNON: List some of the challenges
12 facing today's healthcare in the United States,
13 describe universal tools available for effective
14 education in blood utilization and to review the
15 results of institution hospital-wide blood
16 utilization, education and processes.

17 (Slide.)

18 MS. VERNON: I don't think I have to ask
19 the question what is there a growing need for blood
20 conservation. I think that's been answered. But
21 we're going to talk about the supply/demand gap and
22 how it's escalating through the reports that we're

1 receiving. The increased awareness of the clinical
2 impact in transfusion therapy, the inconsistent
3 standard of care that we're seeing across the United
4 States and the disaster emergency preparedness, which
5 we're also seeing.

6 (Slide.)

7 MS. VERNON: Starting with the blood
8 supply, blood shortages exist all over America. This
9 is a quote from the American Blood Center. This was
10 testimony that was given on our nation's blood
11 supply. They also reported there's a wastage of
12 organs and it's increasing that each day necessary
13 surgeries are canceled or postponed for a lack of an
14 adequate supply in the hospital. Today there is less
15 than a three-day supply of blood nationwide. Never
16 in modern times have our reserves been lower. I can
17 personally testify to that. I'm from Ohio. We have
18 blood emergencies almost on a monthly basis. You can
19 drive by a hospital in any area in Cleveland and see
20 big signs up front asking for donations because of
21 blood emergencies. Some of our donor requirements
22 have been modified simply because we need more blood.

1 Our blood supply is inadequate to deal with a major
2 disaster. That may be true today.

3 (Slide.)

4 MS. VERNON: The blood demand is another
5 issue. The current U.S. blood demand annually is 14
6 million units collected, 27 million blood components
7 are transfused to 4.5 million patients. This is
8 increasing by 27 percent between the years of 1994
9 and 2001. Now it's increasing by 3 to 5 percent per
10 year. Why is this? Obviously, we have an expanding
11 elderly population. They need more orthopaedic
12 procedures and they need more cardiac procedures, so
13 they're using half of the blood supply and 47 percent
14 of the blood transfusions are to Medicare
15 beneficiaries. More complex and aggressive
16 procedures are certainly being performed in our
17 hospitals today demanding more blood.

18 (Slide.)

19 MS. VERNON: One thing I wanted to mention
20 today is something that hasn't been mentioned so far
21 the growing interest in the medical community that's
22 transfusion related immunomodulation or TRIM. We're

1 actually talking about the fact that the more blood
2 you give the more there's an effect on the immune
3 system. We've known this for years in the transplant
4 field that if we gave blood the patient had a better
5 opportunity of accepting the organ. Now we're
6 looking at this in the sense of what are some of the
7 effects. This is still new information. There's a
8 lot of research that needs to go into this. However,
9 some of the articles and studies that are going on
10 are compelling. For instance, there's a 7 to 10 fold
11 increase in post-operative infection rates that
12 leading to increased length of stay, obviously, a
13 higher resource consumption and this leads to total
14 hospital costs. We're also beginning to see a
15 relationship between cancer reoccurrence in
16 transfused patients and also increased mortality
17 rates in CABG. I know this has also been published
18 in the colon/rectal area.

19 (Slide.)

20 MS. VERNON: Duke and Columbia
21 Universities did a very interesting study on heart
22 surgery patient outcomes following a transfusion and

1 a time. Of stored blood of 321 patients the
2 mortality rate for patients receiving the freshest
3 blood was 4 percent as opposed to a 25 percent
4 mortality rate for those who received the oldest
5 blood. The former spent 3.5 days in the ICU compared
6 to 17 days for the latter. So again, this is
7 information coming out that definitely we need more
8 to validate these small studies.

9 (Slide.)

10 MS. VERNON: I mentioned the inconsistent
11 standard of care and this is something that I
12 experience as I go across the country and speak with
13 physicians and analyze the standards of practices in
14 hospitals in the area for instance in CABGs in some
15 hospitals their transfusion rate across the board is
16 76 percent of all patients receive blood. Yet, in
17 other areas of the country it's 50 percent. I know a
18 hospital on the East Coast their transfusion rate
19 across the board is 17 percent. So we do have some
20 inconsistency. The ASH published some information on
21 RBC transfusions are being given unnecessarily, maybe
22 that's the case considering what we are observing

1 across our country. Nearly 20 percent of the stable
2 uncomplicated CABGs in this article highlighted they
3 were receiving unnecessary transfusions. Of 14
4 million RBCs transfused annually in the United
5 States, an estimated 30 percent are given to CABG
6 patients. You can see the domino effect that's
7 taking place. In this study they suggested at least
8 170,000 units of red blood cells are administered
9 annually in the U.S. that maybe shouldn't be.

10 (Slide.)

11 MS. VERNON: Again, we can't talk about
12 medicine today without talking about disaster
13 preparedness. I just took a quote from the AABB
14 Taskforce, and by the way, they've done a very good
15 job of addressing disaster operations. The single
16 greatest risk of domestic disasters and acts of
17 terrorism is not the lack of supply, but the
18 disruption of the blood supply.

19 (Slide.)

20 MS. VERNON: Here's the first key to our
21 presentation this morning -- the proactive rather
22 than reactive. The diversity of disaster

1 preparedness plans throughout the United States are
2 primarily focused on what is being done after a
3 disaster or an event occurs. We look at blood
4 conservation as a multi-disciplinary, hospital-wide
5 initiative in education that focuses on best
6 practices so as to be prepared prior to a disaster or
7 an event.

8 (Slide.)

9 MS. VERNON: Yet, there's challenges.
10 Hospitals are seeking to reduce donor transfusions,
11 but they're having difficulty doing so in a timely
12 and cost-effective manner. Some of the reasons are
13 listed here -- the lack of subject-matter expertise;
14 the inconsistent training and education of staff; the
15 absence of standardized policies and the inability to
16 consistently track, analyze and report outcomes.

17 (Slide.)

18 MS. VERNON: Yet, with blood conservation
19 we're seeing that with proper blood utilization the
20 implementation of blood conservation processes and
21 proven best practice techniques can be obtained
22 through training and education. This is done by a

1 comprehensive, multi-disciplinary process that's
2 designed to promote a universal standard of care in
3 transfusion therapy. Subject-matter expertise in the
4 delivery of education is essential so that we can
5 provide hospital with the ability to create a success
6 program in a relatively short time period.

7 (Slide.)

8 MS. VERNON: Put another way is that
9 education and training leads to the application of
10 best practices, which leads to good collection of
11 evidence based-practices and data recording and
12 analysis, which in turn, goes back to further
13 education and training, which again goes back to the
14 application of best practices.

15 (Slide.)

16 MS. VERNON: What are some of the tools in
17 blood conservation? We recognize the program manager
18 who is a dedicated, licensed clinician who's
19 generally been an RN in most of the programs across
20 the United States who are properly trained in blood
21 conservation processes. We developed standardized
22 policies and procedures. This assures a consistent

1 standard of care, if I can borrow a term that was
2 used yesterday. This takes fragmentation and creates
3 integration. We eliminate the gaps that we have
4 today within departments. Of course, education of
5 clinical and administrative staff is also important.

6 (Slide.)

7 MS. VERNON: Our goals are to implement a
8 process that's effective and conducted in a timely
9 manner. Generally, we can develop these programs
10 within a six-month period of time. We focus on a
11 pre-event education and training in disaster
12 preparedness. Our evidence-based data collection,
13 analysis and reporting system, again, is based on the
14 circle that I showed you before. It's a relational
15 database that can track blood utilization, analyze
16 and report outcomes.

17 (Slide.)

18 MS. VERNON: What are the expected results
19 in blood conservation education and processes? I'm
20 going to highlight three hospitals, but I wanted to
21 mentioned that in the Military they have a saying
22 that if you want to win a war you have to create a

1 beach head. And that's exactly what these hospitals
2 have done in regard to the conservation of blood and
3 blood utilization. They established a beach head.

4 (Slide.)

5 MS. VERNON: I think you'll be impressed
6 with some of their results. First of all, Fairview
7 Hospital back in 2002 is a hospital part of the
8 Cleveland Clinic system. In their first year they
9 reduced their total transfused RBCs by 16.5 percent.
10 Within three years, they had reduced their
11 transfusions in cardiac surgery by 50 percent and in
12 orthopaedic surgery within three years they reduced
13 it by 48 percent. They have a 66 reduction in post-
14 operative infections and 8.8 reduction in the length
15 of stay. And as you noticed, they have an increase
16 in their patient census as well.

17 MS. VERNON: This is hot off the press.
18 You're not going to see this in your handouts. I
19 apologize. But this hospital was so excited to be
20 able to share the data that they've been acquiring
21 since they started their program. We were at 11
22 o'clock last night putting this into the slide

1 presentation for you today. They mentioned to me
2 they would be happy to speak with any member that may
3 have questions about their program. The Geisinger
4 Health System is located in northern Pennsylvania.
5 It serves almost two million people.

6 (Slide.)

7 MS. VERNON: They have two facilities in
8 which they implemented blood conservation programs.
9 One is a Level One trauma center in Danville,
10 Pennsylvania.

11 (Slide.)

12 MS. VERNON: The other one is a community
13 hospital about an hour east of Danville in the
14 Wyoming Valley, their Wilkes-Barre facility. The
15 Danville facility incorporated their program in April
16 2005 and Wyoming did theirs in November 2005. What
17 were the results?

18 (Slide.)

19 MS. VERNON: O.R. cases increased by 14.3
20 percent. At the same time, transfused red blood
21 cells decreased by 3.7 percent. Total blood products
22 transfused decreased by 14.7 percent and discarded

1 blood products decreased by 53.7 percent. So there
2 are spin off effects of this soft science. We call
3 them transfusion reactions decreased by 20.6 percent.
4 This was at their main campus.

5 (Slide.)

6 MS. VERNON: At their community hospital,
7 their O.R. cases increased by 7.2 percent. Their
8 transfused red blood cells decreased by 18.2 percent.
9 I might add that this is a hospital that does a lot
10 of cardiac surgery and orthopaedic surgery. Their
11 blood transfusions decreased by 16.8 percent.
12 Discarded blood products decreased by 4.2 percent.
13 And again, their transfusion reactions decreased by
14 7.1 percent. So whether you're in a large Level One
15 trauma center hospital or you're in a community
16 hospital, you can see the effects they've had in
17 decreasing or improving their blood utilization by
18 decreasing unnecessary transfusions.

19 (Slide.)

20 MS. VERNON: In their ICU, I thought this
21 was another interesting group of statistics,
22 admissions increased by 19.8 percent. Again, this is

1 at their Danville facility. Their transfusions
2 decreased by 7.7 percent. The reason we're giving
3 you this is because as they begin implementing their
4 blood conservation program and seeing the effect it
5 was having on cardiac patients and orthopaedic
6 patients, they decided that they needed to pilot this
7 program in their ICU for all patients. Within three
8 months they made a standard of care within that unit.
9 Their total blood products transfused decreased by
10 20.4 percent. There's an estimated blood usage per
11 calendar year. That's decreased by 5 percent.
12 Again, if you have any further questions about
13 Geisinger, I'd be happy to entertain any discussion.

14 (Slide.)

15 MS. VERNON: Finally, Virginia
16 Commonwealth University Medical Center -- I'm
17 highlighting this because some hospitals are just
18 incorporating conservation efforts within a
19 specialty. This highlights their cardiac blood
20 conservation program in which, again, through
21 extensive education and training in the
22 methodologies, procedures and policies they were

1 quoted as saying that despite the decrease in
2 transfusion and the lower hematocrit it appeared that
3 not only were patient outcomes not adversely
4 affected. They were, in fact, improved.

5 (Slide.)

6 MS. VERNON: In medicine we have a term
7 called the "golden hour." I submit to you today that
8 in my humble opinion we are in the golden hour of
9 blood conservation. We know what this concept means.
10 It means that from the time of the trauma to the time
11 of medical intervention there's a statistical
12 evidence that the sooner the intervention takes place
13 the better the outcome. We understand in blood
14 conservation today the sooner we act on some of the
15 proposals that we'll give you the better the outcome
16 will be for not only blood conservation, but all of
17 the initiatives that you've been discussing yesterday
18 and today.

19 So what is needed is to gain the upper
20 hand on blood utilization will require rapid and
21 sustained expansion of blood conservation, education.
22 The time to act is now. We need the endorsement of a

1 national blood conservation campaign. There just
2 isn't enough awareness out there of what we're
3 talking about of techniques, of technology, of
4 standards of practice that are improving our patient
5 outcomes. We also need resources for additional
6 education, not only to our physicians and our staff,
7 but our hospitals across the United States. We need
8 data collection and analysis from groups as have been
9 presented for the last two days and we need an
10 increased national awareness on the part of the
11 public. Blood is our most precious resource. We
12 need to be sharing with them that we understand the
13 sacrifices they're making in donating their blood and
14 we need to be showing them that we're using that
15 resource in a responsible manner. So I thank you for
16 the opportunity to speak to you today and I'll
17 entertain any questions you may have.

18 DR. BRACEY: Thank you. That's a very
19 interesting presentation. One of the things that's a
20 real challenge is to collect all of the pertinent
21 data in terms of patient outcomes related to
22 transfusion. It seems that in your system you have

1 access to that. I guess what I'm really trying to
2 get at is, as we discussed yesterday, it's very
3 important to have a simple way to gather data so that
4 you will be effective in gathering that data. What
5 is the current structure of most hospital systems who
6 are gathering such data? Is that a formidable
7 challenge or are there rather easy pieces to be
8 obtained?

9 MS. VERNON: Staples says it's an "Easy
10 Button." As I mentioned before, you know, we have a
11 clinician that is heading the whole effort toward
12 blood conservation in the hospital. That clinician
13 is responsible for collecting the data, but we made
14 it simple. Through 12 years of my own experience, we
15 were able to sit down and say what is really needed
16 today? What is easy for hospitals to obtain on their
17 own without a lot of additional resources and how can
18 we supplement that? So we designed a very robust
19 system that is able to identify what they can collect
20 and then merge what we can collect with what they can
21 collect. However, ours is a stand-alone system, so
22 we're not dependent on the IT technology of any

1 hospital because we stand alone. So as you're
2 probably aware, in our hospital systems across the
3 United States today, we have some tremendous
4 challenges with computers talking to computers. We
5 don't need that with this. So we can collect the
6 data on these patients independently.

7 DR. BRACEY: Dr. Epstein?

8 DR. EPSTEIN: Thank you very much. I have
9 a question. The implication of the findings you
10 presented are profound for patient outcomes. The
11 concern that I have is are these data prospectively
12 controlled or in each case were they retrospective?

13 MS. VERNON: I'm sorry I lost the last
14 part of the question.

15 DR. EPSTEIN: What I'm saying is whether
16 the improved patient outcomes that were found are
17 conclusions solely from the retrospective comparisons
18 or whether there have been any prospective cohort
19 contemporaneous studies that could be controlled.
20 You always have the problem when you come into the
21 system you bring in the transfusion and you improve
22 many, many things. All other factors may not be

1 equal and I think that given the importance of these
2 presumptive findings, it's very important that they
3 be confirmed prospectively and in a controlled
4 fashion. So my question to you is, of the outcome
5 findings that you've given us, is any of it
6 prospectively controlled? Or are all the comparisons
7 retrospective?

8 MS. VERNON: Let me answer the question
9 this way, if I've understood you correctly, when we
10 go into a hospital setting, we're analyzing what is
11 the current standard of practice and what are their
12 transfusion statistics. Anything that we can gather
13 that the hospital has already been collecting becomes
14 the benchmark against statistics such as we've showed
15 you.

16 Now obviously, we are implementing new
17 policies, new procedures. We're implementing the
18 things that we are aware of that work in blood
19 conservation. So we're comparing what they were
20 doing to the results of what they're now doing. Now
21 there are some hospitals that are actually comparing
22 and doing pilot studies where they're dividing

1 patients into the traditional way of caring for
2 patients as well as implementing blood conservation
3 techniques. Some of this has been published in the
4 journals. Some of it I'm just aware of because of
5 the hospitals I've worked with that has never
6 published. However, they're looking at this data
7 from a variety of viewpoints. So I guess the long
8 and short of it is, yes, that's being done and
9 definitely with Geisinger and Fairview, they both did
10 that, and they continue to do that.

11 DR. BRACEY: Looking through the
12 literature, the majority of these data points are, in
13 fact, not controlled studies. But the one thing that
14 is compelling is the savings in terms of the blood
15 supply. It would suggest there have been a number of
16 earlier reports which suggest that there are a lot of
17 fat, in terms of blood utilization. I think that a
18 not so controversial piece of it may be the ability
19 to use a more efficient approach to blood transfusion
20 with still questions that are open regarding outcome
21 measures.

22 Dr. Duffell?

1 DR. DUFFELL: Can you comment, maybe
2 briefly, on some of the criteria that were used to
3 decrease the utilization, the methodologies?

4 MS. VERNON: Yes. First of all, we
5 analyzed exactly how procedures are being done at the
6 present time. We benchmarked that against known
7 blood conservation techniques. We look at things
8 preoperatively, interoperative and postoperatively.
9 So we're dividing our standards of care, our standing
10 orders, our policies by what the hospital is doing
11 today. Preoperatively, we're looking at how quickly
12 are patients getting to surgery. Is there any
13 concern around anemia and are doctors focusing on
14 anemia at all pre-operatively? If it's an elective
15 surgery, we have a luxury of building these patients
16 up preoperatively so that we reduce the need or the
17 risk of them receiving blood. Interoperatively, we
18 incorporate a lot of techniques. The AABB is doing
19 some very perioperative efforts in that area. So we
20 can use blood conservation techniques
21 interoperatively to hopefully put the patient in the
22 best optimal condition postoperatively. But I think

1 the key in all of this is it has to be integrated.
2 We have pieces and parts of blood conservation in
3 every hospital across the United States, but it's not
4 integrated. There's no consistent standard. So it's
5 so dependent on physician practice or an initiative
6 within an department or a unit that we have no
7 consistency. We need integration and integration is
8 really the key. It moves the whole institution into
9 a new mind set so that everybody begins thinking
10 about blood conservation.

11 DR. BRACEY: Thank you.

12 If there are no more questions or comments
13 -- Dr. Angelbeck?

14 DR. ANGELBECK: Who do you approach at the
15 hospital to initiate this program?

16 MS. VERNON: That is the million dollar
17 question. That's why I said education and awareness
18 is such an important issue. These programs are being
19 instituted and initiated by a number of different
20 people within the hospital. It's usually the person
21 who either has had some personal experience or
22 conversational awareness with somebody at another

1 hospital that has a conservation program or the Blood
2 Bank. Obviously, the Blood Bank is impacted the most
3 by all of the issues we've talked about in the last
4 two days, including cost. Billions of dollars are
5 going out to the Blood Bank and I don't think I'm
6 answering your question.

7 DR. ANGELBECK: Somewhere in the process
8 there has to be buy-in from the executive
9 administration of the hospital. Where does that
10 come?

11 MS. VERNON: That comes through showing
12 them that from a patient outcome perspective that by
13 reducing our blood utilization they can improve
14 patient outcomes and at the same time do it in a cost
15 effective manner so they realize resources that can
16 be allocated to other areas of a hospital. They're
17 interested in patient outcomes. They're interested
18 in incorporating things that will allow them to
19 reallocate resources. So administration look at it
20 from that point of view. Physicians look at it from
21 another point of view. They're not going to do
22 anything that's going to jeopardize their patients.

1 So basically, if you can show them enough data and
2 have them talk to enough other expertise in the area,
3 you can convince them that this something that
4 they're going to look into. As they see the results,
5 it's very easy to bring them on board. But I think
6 you see the beauty of this is that there's no
7 punitive action in this. With physicians today, and
8 I hear this all the time, you can't create a
9 transfusion guideline when you have a hemoglobin of 7
10 and tell physicians that they have to abide by that
11 transfusion trigger. You've got to provide education
12 and hopefully make sure we never get our patients
13 down to 7 in most elective cases so they never have
14 to deal with that. Education is the key. We need
15 education. We need more of it and we need the
16 studies that go along with education.

17 DR. BRACEY: Thank you.

18 I think one of the real potential gains is
19 that if one can develop a more efficient system buy-
20 in maybe selling it to hospitals would be something
21 that would be made much more easy. Thank you.

22 We now have a special guest, Assistant

1 Secretary Agwendoi. He will make comments for the
2 Committee and also a presentation.

3 Executive Secretary Holmberg?

4 DR. HOLMBERG: I just have to say that
5 it's been a real honor the last couple of months to
6 really work with Dr. Agwendoi and share some of his
7 thoughts with the Committee. Thank you for joining
8 us today.

9 DR. AGWUNOBI: Mr. Chairman, thank you
10 very much for this opportunity. Your leadership has
11 inspired the Committee to great things. I've been
12 looking at some of the work you've been working on
13 and I expect to be fully appraised of the work of
14 today's committee and at future committees.

15 My name is John Agwendoi. Some of you I
16 know very well. Others I hope to get to know. I'm a
17 pediatrician. I serve as the Assistant Secretary for
18 Health in the Department of Health and Human
19 Services. The function is such that it allows me
20 unique access to policy makers and to scientists. I
21 don't have power and authority. I have a beautiful
22 uniform. I serve proudly in the U.S. Public Health

1 Service Commission Corps and for all of you wearing
2 that uniform in the room, the men and women of the
3 Commission Corps, I salute you with great pride.
4 Your work is inspirational. In my role as Assistant
5 Secretary for Health, I do have the opportunity to
6 advise. This is the main function of the role. I
7 advise the Secretary, the Deputy Secretary and many
8 others across the Department on things that I
9 gathered in the course of my day, the things I hear
10 from advisory committees, the things I hear from the
11 public, the things that I hear from advocates who
12 come in, the things I hear from Mrs. Smith on the
13 corner. My job is to try and constantly serve as a
14 summarizer of the notions, the thoughts, the
15 priorities, the values, the recommendations that are
16 out there to make sure that they're on the table when
17 decisions are being made by decision makers. On
18 occasion, they use me to help coordinate the
19 activities that might be occurring across different
20 agencies within the Department of Health and Human
21 Services. You might be surprised to hear that they
22 don't always talk to each other when we first start

1 with initiatives, but they get together quickly and
2 my job is just to make sure that everyone's voice is
3 heard as we develop policies. I also have the unique
4 privilege to be the Department's blood safety
5 officer. I've been briefed in great detail by Jerry
6 as to what that entails, but I've come to realize
7 that this system that our wonderful nation has built
8 over the years, starting as far back as the second
9 World War, this blood safety tapestry has been
10 brought together incrementally over the years with
11 the gradual addition, the gradual modification of
12 steps.

13 Every once and a while, a leader comes
14 along or an advisory group comes along and decides
15 it's time to make the next big step. And as I look
16 at the history and the timeline of the development of
17 the system I begin to realize that it's one that's
18 still in formation. It's far from complete. It's
19 beautiful to behold and it seems to work for the most
20 part, but it's far from complete. By design, it's
21 suppose to get better with the passage of time. Some
22 of the work that you're doing as it relates to

1 disaster preparedness, for example, the notion that
2 we might develop a national reserve, some of the work
3 that you're doing with regards to utilization, the
4 work that you're doing today talking about
5 biovigilance. Hopefully, all of this work
6 translates into the next big step in this tapestry in
7 our blood supply at our blood safety system.

8 I've come to realize that my job in this
9 effort is to try to inspire you and others to embrace
10 those recommendations and to recognize that it's our
11 obligation to leave behind us a system that is better
12 than the one we found when we arrived. My job is to
13 make sure that your recommendations result in action.

14 Now I am liberated by the fact that I have
15 a tenure. My job ends as of a certain date. It
16 means that I have nothing to lose by trying hardest
17 and my darrest to get things done. I don't have to
18 worry about what will happen 10 years from now. I
19 have to worry about how much I can get done in the
20 time I have left. It pumps me with a certain amount
21 of urgency. I don't mean to push or to pass this
22 urgency on to you, but if there's anything that you

1 think is critically important and you're looking for
2 a champion to help get that done now, I would urge
3 you to let me know the sooner the better. I hope to
4 look back on my role as Assistant Secretary of Health
5 and be able to point to how I helped add, just even
6 only a little bit to that tapestry. I don't want to
7 be the creator or the designer. That's your job. I
8 want to help be the implementor. I recognize that
9 many more effective and greater leaders than I have
10 come before. And indeed, we have a wonderful
11 chairman and each of you has served. A number of
12 you, I know, live this every day and you've see
13 upstarts like me come around a hundred times. But I
14 do want to help and I would urge you to give tasks.
15 Through Jay, give me tasks. Jerry will pass things
16 on to me and he will advise me. Give me some tasks
17 that you know that I can get done in a period of
18 time. As I look in front of me, I realize that
19 there's great things happening already. Jerry spent
20 -- is it two or three hours yesterday -- this week
21 briefing me in great detail as to the history of how
22 we got to where we are today, I think in large part,

1 so I don't make the mistakes of the past. But I
2 think it was also to inspire me. He was trying to
3 show me that if I do actively engage it can make a
4 difference and he kind of pointed to the fact that
5 there are other people over the years, whether they
6 be in the private sector, audience or in the
7 government -- he pointed to people who actively, over
8 the years, made a difference. They may not have
9 known they were making a difference at the time, but
10 as you look back on how the system has changes you
11 can actually point to their intervention, their
12 energy, their enthusiasm at that point in time and
13 how it inspired the next step up for the system. So
14 I stand ready to serve you in that respect and I
15 recognize today I get to honor others who have
16 served. I know I can never hope to do what they've
17 done in terms of their commitment and their energy
18 and their addition to the system, but I do hope in
19 offering a meager thanks in the form of a plaque that
20 they will recognize that we're deeply grateful for
21 the service that they have provided to the nation.

22 Sometimes we forget when we sit around

1 these tables that it's not a collegial group of
2 experts talking and sharing experiences. It's not
3 just papers and documents that get shuffled and
4 things that get written in our resumes. It's
5 actually really about saving lives. I have three
6 children and I imagine a number of you have children.
7 I have no doubt that statistically that one of them
8 or all of them or some of them or their children will
9 at some point rely on the system that you are
10 building and influencing.

11 On occasion, I think we forget that this
12 is about people and I'm young enough to realize that
13 at some point I may well be the beneficiary of the
14 work that you do today or the next meeting or the
15 meeting after that. I urge you to get it right.

16 (Laughter.)

17 DR. AGWUNOBI: When I'm on that gurney, I
18 urge you to get it right.

19 (Laughter.)

20 DR. AGWUNOBI: Not one of us that serve
21 today might not have the benefit of the work that
22 you're all doing. It helps you put things in

1 perspective when I describe it in those terms. I

2 thank you.

3 Before we get to the plaques, I wonder,

4 Mr. Chairman, if I might ask a few questions?

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1 DR. BRACEY: This is a great opportunity.

2 Questions or comments for the Secretary?

3 DR. SANDLER: My name is Jerry Sandler.

4 I'm here to represent the American Hospital

5 Association.

6 I want to thank you very much for taking
7 the time to come and address the group. I asked the
8 question yesterday, and the Executive Secretary said
9 do you want to answer that now? Tomorrow is the
10 Assistant Secretary.

11 DR. AGWUNOBI: I don't know about that,
12 but bring it up.

13 (Laughter.)

14 DR. SANDLER: We had the AIDS epidemic,
15 and, in retrospect, people looked at the blood
16 program, and they said, you know, there's a lot of
17 fragmentation; there's no one leader. Some people
18 are saying, do this; some people are saying, do that.

19 In retrospect, there was a lot of
20 criticism of that. The hope was that the Assistant
21 Secretary of Health was going to come along and
22 become sort of a blood czar and have that oversight.

1 We got up to 9/11, and that hadn't quite
2 happened. Some of the blood centers in the country
3 were saying to the populous, we need you to donate
4 blood, because we don't know what's going to happen
5 on 9/12, 13, and 14.

6 Other blood collectors were saying, you
7 know, the danger of this is that there are injuries,
8 and we want not to overburden the collection system.

9 That is to say, on 9/11, there was no
10 blood czar, no umbrella. I couldn't, as a blood
11 director in my hospital, give guidance to people who
12 were asking me, should I give or shouldn't I give?

13 I wanted to go to a website, and I wanted
14 to see the Assistant Secretary of Health or some
15 designated person, speak with one voice about how the
16 United States Public Health Service, saw the best
17 coordination of information one could do.

18 You have introduced yourself as a mentor,
19 advisor, helper. Are you going to have a website,
20 when, if we do unfortunately have a pandemic, and if
21 we have a national blood shortage, and my hospital
22 wants to know how to use blood, the limited supply in

1 the nation's capital, so that I use it equitably with
2 my partners across the community and at other
3 hospitals, who want to know what to do themselves,
4 where are we going to get leadership, if, when the
5 next disaster comes, which we think might be a
6 pandemic, and reduce blood donors, reduce personnel
7 in the healthcare system, and take care of people,
8 where will the initiative come from on that end?
9 Thank you for your attention.

10 DR. AGWUNOBI: When Jerry and I were
11 speaking, I remember, during the course of the
12 conversation, I brought in a number of my staff,
13 because, how often do you get one of the foremost
14 experts in the country to give you a two-hour lecture
15 on the blood safety system and the blood supply
16 system of the nation?

17 I brought in all the young MPH fellows,
18 all the young mid-level officers in my office, I
19 brought them in and I sat them, almost classroom
20 style, and said, listen, you're about to hear a
21 wonderful lecture.

22 Midway through the lecture, I spoke to

1 Jerry and I said, let me ask you question. If a
2 major disaster occurred tomorrow, and there was an
3 acute shortage of blood supply, people were severely
4 injured, not like 9/11, where, unfortunately, we lost
5 people altogether, pretty quickly, but a tragedy that
6 either on an ongoing basis, generated the need for
7 blood, or a tragedy that was so dramatic that it
8 impacted the blood supply, the blood donor pool, or a
9 tragedy that was so big and acute, and there were
10 just so many acute injuries, that we were
11 dramatically impacted by our inability to supply
12 blood?

13 And all the heads turned to Jerry, and he
14 looked at me and he pointed at me and said, sir,
15 that's your job; you would be the one they would hold
16 responsible.

17 I have begun to realize that what you say,
18 is true; there needs to be a single voice that speaks
19 to this issue, whenever an emergency occurs. I'm not
20 sure it should be a dictatorial voice.

21 I'm not 100 percent sure that I'm
22 persuaded that it needs to be an emperor that says

1 this is what we're going to do. It needs to be a
2 voice that starts by asking quickly, a few key
3 people, what do you see, what do you think, and how
4 should we proceed?

5 It needs to be a person -- me -- that
6 gathers quickly, a consensus position from you and
7 translates that to the rest of the world.

8 Now, Jerry is doing a lot of work today
9 with our Office of Public Health Emergency
10 Preparedness, to assure that the Office of Emergency
11 Public Health Preparedness has within its structure,
12 not just some paper on the shelf or some three-ring
13 binder, but within its infrastructure, a person
14 responsible for making sure that when something
15 happens, there's a conference call, a quick bringing
16 together of experts that assess the event, assess
17 what the needs might be.

18 I'd be the voice, but I urge you to
19 recognize that the issue is all of us. What I need
20 to do is make sure that we always have on call, two
21 or three people that can be brought together quickly
22 to help advise.

1 They could be people within the
2 department. I would urge, given the reality of our
3 system, that it also needs to include people outside
4 the Department, quickly brought together to advise on
5 what that message should be and how those messages
6 should evolve over time.

7 Be comforted by the fact that we recognize
8 that we didn't do it the way -- we didn't respond in
9 terms of blood, to September 11th, the way we intend
10 to respond to the next big emergency.

11 That's not to criticize our response to
12 September 11th or the spirit of our nation that
13 resulted in blood donations and in people rushing
14 forward to help in any way they could.

15 If we said give your fingers, people would
16 have given their fingers to respond to that event.
17 That's pretty clear in my mind.

18 But you'll be proud of what we're
19 building, and I would urge you to help us build it.
20 As we talk about the national blood reserves, I would
21 also ask you to think about, given that no two
22 emergencies will ever be exactly the same, the

1 rolling pandemic type of need and type of challenge,
2 is going to be completely different than the triple
3 train bombing that we saw in Spain, that could very
4 well occur here.

5 It's going to be very different than the
6 blood needs we might see following a major nuclear
7 event, the slow impact that might come out of
8 something like that.

9 I would just urge us to begin to engage
10 this. Your points are well taken.

11 DR. BRACEY: I have a question related to
12 your vision of the role of the Government in the
13 process of designing the development of a blood
14 safety system.

15 As we look across the globe, there are
16 many countries where, in fact, it is a governmental
17 enterprise, dictated, if you will, solely by the
18 Government. We have strong private partners
19 throughout the United States.

20 They have the ability to lead, but I would
21 like to know specifically, whether you think that
22 really the Government should be considered

1 responsible for providing the resources and the
2 leadership that we need to get the safest blood
3 system available.

4 DR. AGWUNOBI: The reason I asked Jerry to
5 give me all the details and the timelines about this,
6 about how the system has gotten to where it is today,
7 is because I wanted to see, what have we tried? What
8 have we excelled at? What have we failed at? How
9 have things changed over time?

10 It's pretty clear to me that as we evolved
11 through the Second World War, Vietnam, Korea, and the
12 changes of the '70s, to where we are today, that a
13 reality of our blood system, is that it truly
14 reflects, in my opinion, one of the strengths of our
15 nation. In fact, it kind of reflects the way we do a
16 lot of things.

17 We're a nation of individual sovereign
18 states -- and I recognize that's an overstatement of
19 the authority of the states, but we recognize that
20 states have different laws, states have different
21 priorities and values. No two states are the same.

22 We're a nation that's always tried to

1 inspire, nurture, support, our private sector, the
2 not-for-profit and the for-profit. We're nation that
3 our history is such that it drives us into the
4 future.

5 It's one thing to say I believe government
6 should be in charge, but then you have to deal with
7 the reality. It's never been that way, and you,
8 therefore, would be trashing everything that you
9 have, in order to acquire everything that you want,
10 and the transition would be intensely painful.

11 The cost of the transition might well
12 outweigh what you hope to gain at the end of such a
13 major shift. I'll answer your question now.

14 (Laughter.)

15 DR. AGWUNOBI: I believe that the way to
16 improve our system is to build upon the base that we
17 have. I believe we should continue to strengthen our
18 partnership with the private sector, both for-profit
19 and not-for-profit.

20 I believe we should continue to build upon
21 those relationships that we have with hospitals,
22 blood banks, with advocacy groups, and others.

1 I think the role of government should be
2 to inspire excellence. We should set standards and
3 goals to inspire excellence at all times, into
4 policies and decisions, to force standardization
5 across that system, but I believe we should never do
6 so at the expense of that system.

7 I think it's who we are; it's a reality.
8 It's one thing to sit with pieces of paper and to
9 design nirvana, but the reality of getting there, is
10 a practical job. It's a trade; it's a task; it
11 requires that you roll up your sleeves and engage
12 your partners in every aspect that you find, and that
13 you move forward.

14 I'm reminded -- and I hate to sound a
15 little philosophical here -- but I'm reminded that
16 our nation grew out of not a national army, but a
17 collaboration of militias, farmers and tradesmen who
18 laid down their tools in order to pick up their
19 muskets.

20 I know I sound a little fluffy here, but
21 it's a spirit that I'm trying to describe. I do
22 think we can get better. It's pretty clear to me

1 from the presentations, that there's much work that
2 we need to do.

3 I worry about the divergence that I see in
4 terms of blood safety and organ safety and tissue
5 safety. I worry about what appear to be different
6 standards applied to the same or very similar risks.

7 And I worry that I think the role of
8 government should always be to assure that science is
9 what drives the system.

10 I'm not sure I can add much more to that.

11 DR. BRACEY: Thank you. Other questions?
12 Dr. Duffell?

13 DR. DUFFELL: Dr. Agwunobi, I'm Bill
14 Duffell. I represent at the table, the industry, the
15 scientists and engineers that supply the tools, the
16 disposable sets, the diagnostic equipment that's used
17 to produce the products.

18 I've had the fortunate opportunity to hear
19 you speak more than once. I've always been inspired
20 by your words, and I really appreciate your presence
21 here today, and would encourage you to come back to
22 this Committee in the future, because, while I'm not

1 a long-term member of this Committee, I have sat on a
2 few of them, and, at times, you do wonder if what
3 we're doing is adding value, if it's being heard, if
4 it's being acted upon, and whether or not, ultimately
5 --

6 When I see your presence here today, as it
7 was when I heard you speak before, it's very
8 inspiring.

9 My question for you today is, our
10 industry, the blood suppliers out there, as part of
11 the foundation you mentioned earlier, has had some
12 serious compliance issues that have been brought
13 forth by the Food and Drug Administration.

14 They are impacting in some areas, supply
15 and availability. These are not new events; they've
16 been going on for some time.

17 They've been dragging, in some cases, for
18 years. I'm curious about your level of knowledge
19 about those things, and involvement in trying to get
20 some resolution of some of those things, between the
21 parts of the government and the suppliers themselves.

22 DR. AGWUNOBI: I have to be careful,

1 because these issues relate to the regulatory
2 authority of specific agencies, and I don't want to
3 pretend that I represent those agencies, so I won't
4 get into the specifics.

5 I can tell you this: As much as I am a
6 supporter of this tapestry and of our continued
7 movement in seeking excellence and pushing us towards
8 ever-better systems, in time, I am deeply troubled
9 that it would appear that two of the largest or
10 larger pieces of that tapestry, don't seem to inspire
11 all of the smaller pieces of that tapestry.

12 That is, it would appear that they're not
13 the models for the smaller pieces that I would hope
14 they would be over time. Because they are large and
15 are in the room, I'll stop right there.

16 (Laughter.)

17 DR. AGWUNOBI: FDA, did I cross some line
18 I shouldn't have crossed?

19 DR. EPSTEIN: Not yet.

20 (Laughter.)

21 DR. BRACEY: Ms. Thomas?

22 MS. THOMAS: Actually, I don't have a

1 question, but just a comment I'd like to make. I'm
2 Linda Thomas, Executive Director of the Sickle Cell
3 Association. My husband of 28 years passed away last
4 year, due to complications of sickle cell disease, so
5 I am a fairly strong advocate for all persons that
6 receive blood and blood products.

7 I just really wanted to say that I
8 appreciated your comment when you said that it is all
9 about people. In serving on this Committee, that's
10 something that I would like for us never to forget,
11 the people we are serving, to make the United States
12 a better place for all of us.

13 I was really encouraged by your presence
14 this morning. Thank you.

15 DR. AGWUNOBI: I thank you for your
16 willingness to serve and I thank you for your
17 willingness to share.

18 DR. BRACEY: Mr. Walsh?

19 MR. WALSH: As another consumer
20 representative on the Committee, Dr. Agwunobi, I
21 would like to thank you for being here today.

22 The Committee certainly hopes you will be

1 back.

2 One of the parts of the charter of the
3 Committee, since its inception, has been
4 availability, which can be defined in many ways.
5 Unfortunately, those of us on plasma derivatives,
6 know there are some shortage issues on products, as
7 well as reimbursement challenges.

8 We get stuck in between the legislative
9 process and the regulatory authority, CMS. We would
10 like to ask you for your leadership and involvement
11 in the reimbursement issues that affect access to
12 derivatives for tens of thousands of Americans.

13 DR. AGWUNOBI: I am very much involved,
14 although I will share with you that the extent of my
15 involvement today is to learn. I've begun to realize
16 that there a lot of variables involved in the
17 availability and in the ups and downs of the supply
18 for derivatives and IV/IG.

19 I have begun to realize that I need to
20 become better educated on what all those variables
21 are and how they interact with each other and how
22 those things change over time.

1 I understand that there are a lot of
2 people in the Department right now, trying to get a
3 handle on all of those issues and their implications.

4 Jay, how did I do on that one?

5 (Laughter.)

6 DR. EPSTEIN: Just about right.

7 DR. BRACEY: We thank you so much for
8 coming. I guess now is the time to hand out the
9 plaques to those hardworking Committee members.

10 DR. HOLMBERG: Dr. Agwunobi, there are
11 actually three people that we want to recognize, that
12 are not here: Dr. Wong, Dr. Sayers, and Ms. Pahuja.
13 They could not be here today.

14 I have to say that all three of them have
15 been real contributors. Dr. Sayers is Medical
16 Director at Carter Blood Care in Texas. He was here
17 yesterday, and he's on his way to South Africa to a
18 meeting. He is a strong supporter of what we're
19 trying to do here.

20 Dr. Wong is Director of hemostasis at
21 Children's Hospital in L.A. She could not be here
22 today. Ms. Rahuja is a J.D. and MPH. She works in

1 the Palestinian community. She could not be here,
2 but she has spent many, many years on the Committee.

3 DR. AGWUNOBI: Perhaps we should express
4 our gratitude to them in a round of applause.

5 (Applause.)

6 DR. HOLMBERG: The first person I want to
7 recognize today, is Dr. Judy Angelbeck. Judy, would
8 you come over here, please?

9 Judy is Vice President of Research and
10 Development and Cell Therapy for Paul Industries.
11 Paul Industries is a leukoreduction company. Judy
12 actually has spent four years on the Committee.

13 What we found out last year, was that we
14 did not have an adequate replacement for her.

15 DR. AGWUNOBI: You will never have an
16 adequate replacement for her.

17 (Laughter.)

18 DR. HOLMBERG: Absolutely. One of the
19 things I've really appreciated about Judy, is that
20 she has really looked beyond a manufacturer's point
21 of view, and also to the patient's point of view.

22 I truly appreciate your service on the

1 Committee.

2 DR. AGWUNOBI: Dr. Angelbeck, for your
3 outstanding contributions to the Advisory Committee
4 on Blood Safety and Availability, for the term
5 September 03, 2002, to September 30, 2006, I thank
6 you.

7 (Applause.)

8 DR. HOLMBERG: Karen, would you come up,
9 please. This is Karen Lipton, the CEO of AABB,
10 formerly the American Association of Blood Banks.
11 Karen has served on this Committee for many years,
12 more years than is really noted here.

13 This only represents the last three years
14 of her term, which has been seven years on the
15 Committee. Thank you.

16 DR. AGWUNOBI: For your outstanding
17 contributions to the Advisory Committee on Blood
18 Safety and Availability for the last seven years, I
19 thank you.

20 (Applause.)

21 MS. LIPTON: I just wanted to say that I
22 have been on the Committee for seven years, and leave

1 behind a lot of good friends whom I will still
2 continue to work with, but I specifically want to
3 state that it's not about me on this Committee. I'm
4 supported by 7,000 to 8,000 members all over the
5 world, who really do support what I do here today,
6 and I want to thank them.

7 (Applause.)

8 DR. HOLMBERG: One more. This is a very
9 special person. This is Mr. John Walsh. John has
10 been on the Committee, and, again, the dates on here
11 are not correct, because they only recognize the last
12 three years.

13 John has been on the Committee since its
14 inception. He was initially appointed by Secretary
15 Shalala.

16 DR. AGWUNOBI: Well, Mr. Walsh, for your
17 outstanding contributions to the Advisory Committee
18 on Blood Safety and Availability for an awfully long
19 time --

20 (Laughter.)

21 DR. AGWUNOBI: -- I thank you.

22 (Applause.)

1 MR. WALSH: I said my piece yesterday.
2 I'd just like to reinforce the importance of the
3 consumer representatives on the Committee, those
4 plasma users like myself, and those requiring blood
5 products in the general public, who need to be at
6 this table.

7 I commend the Assistant Secretary for his
8 support, and the Department, and the Executive
9 Secretary and Chair, for making certain that the
10 consumer voice is heard, and is always welcome here.

11 Thank you.

12 (Appause.)

13 DR. BRACEY: I guess it's time for a bio-
14 break.

15 (Laughter.)

16 DR. BRACEY: Why don't we take ten minutes
17 and then reconvene.

18 (Recess.)

19

20

21

1 DR. BRACEY: We do have other
2 presentations to hear. Our next speaker will be a
3 person that we have heard from already this morning.
4 But it's a very important topic, and that is the West
5 Nile reporting system. Barbee Whitaker will be
6 presenting that. She has been introduced. So, we
7 know who she is. Thank you. This is the AABB West
8 Nile Virus Reporting System.

9 (Slide.)

10 DR. WHITAKER: Good morning again. I
11 would like to tell you today about AABB's West Nile
12 Virus Biovigilance Network, which we developed in
13 response to a request from the West Nile Task Force.
14 They are an organizational task force that includes
15 quite a few representatives from this group, and a
16 few representatives from this group, and some others
17 that I will tell you about.

18 (Slide.)

19 DR. WHITAKER: It was initiated this West
20 Nile virus season that includes -- the West Nile
21 virus Task Force includes the AABB, ABC, ARC, the
22 Canadian Blood Services, representatives from the

1 CDC, the FDA and the U.S. Department of Defense. The
2 Task Force asked for AABB to develop this system to
3 replace what had been a weekly conference call among
4 these organizations to talk about the status of the
5 West Nile epidemic. And this has been going on, I
6 guess, for three or four years now during the West
7 Nile virus peak. It was taking up a bit of time. We
8 thought there might be a better way of addressing the
9 issues related to blood donors and West Nile virus.

10 (Slide.)

11 DR. WHITAKER: It was intended to support
12 and enhance the tracking initiative that started with
13 the FDA and CDC, and particularly to support public
14 health agencies with blood collection and transfusion
15 services. It was not intended in any way to replace
16 what is normally the process of reporting West Nile
17 virus or to report to public health agencies so the
18 normal process of positive donations to the local
19 public health department is still operative. We have
20 made this quite clear to all of our testing
21 laboratories that they ought to be reporting through
22 the regular reporting process.

1 (Slide.)

2 DR. WHITAKER: The system, which we will
3 call the West Nile Virus biovigilance network
4 colleagues data on blood donors with suspected West
5 Nile virus infection for the United States and
6 Canada. The data are collected from the screening
7 performed by nucleic acid testing is reported to the
8 AABB site by the facilities responsible for testing.
9 In the beginning there was a little confusion about
10 whether this was to be reported by the test sites, or
11 the collection sites. But it is ultimately from the
12 testing labs. Therefore, we are able to get a
13 response that is really quick. It was quicker during
14 the beginning than it is right now because there is
15 quite a few West Nile virus presumed to be viremic
16 donations right now. We are probably at the peak
17 this week and probably next week.

18 In our reporting we have the geographic
19 and temporal distribution of West Nile virus
20 infection for this season. One of the things that is
21 unique about this program is that we put a
22 restriction on that is being reported to the system.

1 With a cut-off ratio of greater than 17, we expect
2 that we are getting very, very few false positives
3 reported into our system. We think we have a pretty
4 good handle on what is going on. It's a web-based
5 system. It's on AABB's web site. I'll show you a
6 little bit more about it.

7 There are 45 laboratories reporting into
8 the system at this time. Two of those are in Canada.
9 We have Hema-Quebec and the Canadian Blood Service.

10 (Slide.)

11 DR. WHITAKER: Right now, with a mid-
12 August -- or actually late August update of Monday of
13 this week, we have approximately 171 confirmed
14 positive PVDs or presumed viremic donations. There
15 were 105 pending confirmations. As I said, we have
16 few reported false positives right now. There are
17 two. There may be a couple of other ones in the
18 pending column that have low S/COs. But we will
19 identify and sort of ferret out which ones are false
20 positives at the end of the analysis process.

21 Because this is the first year we are
22 doing this, we are collecting a list of improvements

1 we anticipate running this for future mosquito
2 seasons. And improving the system as we go along.

3 (Slide.)

4 DR. WHITAKER: We have three modules, and
5 since I haven't run this on an overhead, you can't
6 see our web site, but I can tell you about it. We
7 have a public section of our web site. It's the
8 AABB.org web site. It gives you programs and
9 services on the web site, and the model of that is
10 West Nile virus. It's the bottom choice, and if you
11 pick that, you can go to the public part of our web
12 site. You will see a map of the United States and
13 Canada, also a bar graph of PVDs by date collected.
14 We have a data collection part of the site, which is
15 password-only for our laboratory sites.

16 We also have a data reporting portion of
17 it, which is also password-protected. I'll tell you
18 a little bit more about those after I talk about the
19 public site.

20 (Slide.)

21 DR. WHITAKER: This is our map, as you can
22 see, of the United States and Canada. Each one of

1 the dots is presumed viremic donation. Confirmed
2 positives are red. Yellow dots are pending
3 interpretations. We added Canada and Alaska. You
4 can see they take up a lot space.

5 Next, we'll see if we can blow up the
6 United States a little bit more.

7 (Laughter.)

8 DR. WHITAKER: So, we can give a little
9 bit more importance to ourselves. But, in the
10 interests of getting something up this year, we
11 wanted to make it available. We have also given
12 darkness by number or shading by number of PVDs at
13 each state. You can see that Texas, Idaho, that's
14 Utah, California, the Dakotas, Nebraska, and
15 Illinois, all have five to 25 PVDs and they are
16 shaded accordingly.

17 One of the things to note is that these
18 are not reports of incidents. This is just by
19 number. Clearly, the epidemic is more severe in a
20 state like Idaho, which has very few people living
21 there than it is in, like California, which is more
22 thickly populated.

1 One of the things we look to improve is to
2 look more at the population and also at blood donors
3 for the denominator. This is just strictly numerator
4 data. Matt worked on that yesterday and presented a
5 very nice map that the CDC has done with numerator
6 and denominator data.

7 (Slide.)

8 DR. WHITAKER: This is how a graph of the
9 epidemic, which looks at week of donation. We have
10 the lighter color on the bottom, which is the
11 confirmed deposit, and as you can see, at the
12 beginning of the year, in May, it is very acute and
13 the epidemic ramps up a little bit in June and July.
14 And in August, we are looking at quite a few
15 confirmed positives.

16 These are pending in red. This is last
17 week. I updated this Tuesday morning, so you can see
18 here, August, was pretty much a peek of what we've
19 got. We are still waiting on confirmation reports
20 from quite a few of the laboratories. Both the map
21 and this chart are on the public web site.

22 (Slide.)

1 DR. WHITAKER: On the password-protected
2 section, you get taken to the data entry portion of
3 the web site. This is the first data entry screen,
4 which is here you would enter the information about
5 presumed viremic donations. This is what the data
6 entry screen looks like.

7 (Slide.)

8 DR. WHITAKER: The data we are collecting
9 is donation-based. Blood donation unit number, date
10 of collection, state of residence, zip code. Then
11 particular information about the testing platform,
12 S/CO ratio, pool size, whether the donation was
13 tested under conditions where the lab had triggered
14 single donation testing protocol, final test
15 interpretation, incidence information about antibody
16 testing, repeat testing, and if the lab has it, we
17 have information about follow-up samples.

18 Our system is pretty accommodating on a
19 lot of data we have.

20 (Slide.)

21 DR. WHITAKER: This is the screen for
22 reports. We have about nine reports that you can

1 generate. This is also in the password-protected
2 section, on the left side.

3 (Slide.)

4 DR. WHITAKER: We have two types of
5 reports. A very specific lab report, which is data.
6 You would be able to access only in your own data,
7 which, if you were a lab, you could put in your own
8 lab's entry about specific PVDs, and then system or
9 aggregate data.

10 This would be number of cases by state,
11 zip code, and week and analysis by pool size. And
12 there's a variety of output options. You can get it
13 by an Excel chart, or a TIF file.

14 (Slide.)

15 DR. WHITAKER: We have quickly listed the
16 web sites of CDC now and they are frequently asked
17 FAQ file.

18 (Slide.)

19 DR. WHITAKER: Looking back on it, two-
20 thirds of the way through the mosquito season, we
21 consider that our network was a success. We are
22 asked to develop it very quickly, by the inter-

1 organizational task force who came to us in March and
2 asked us to have it out by June 1st. We were able to
3 put it together.

4 One of the things they asked us to do was
5 to be able to look at it as a biovigilance
6 experiment. We put together something that could be
7 used by entities throughout the country on that basis
8 and we put it together in a flexible way. We right
9 now have a platform that is on our web site that we
10 can modify, not the West Nile virus one, but we can
11 develop something that is very similar to this that
12 could be used as a prototype or a pilot for data that
13 we could decide to collect, perhaps on biovigilance.

14 We have some things we could modify for
15 other data. If you like what you saw, we have a tool
16 that we could use that could be used by the industry
17 or the community to collect information about other
18 aspects of biovigilance. And I think we are very
19 interested in using something like this, if it could
20 be useful to the community.

21 I think that by putting it on a web site,
22 it allows you to work with the membership to

1 communicate your information. It's available to
2 people right up front. You can provide the
3 information in a place where they would be obtaining
4 it regularly.

5 So, we look forward to offering both the
6 West Nile virus biovigilance center in the future,
7 and we would like to offer the flexible tool in
8 support of biovigilance activities at this point.

9 Thank you.

10 DR. BRACEY: Thank you. Questions from
11 the committee? Dr. Kuehnert?

12 DR. KUEHNERT: Very nice presentation. I
13 wonder what your plans are to evaluate it at the end
14 of the season? Just to see exactly how successful it
15 was on a number of parameters, including the time
16 lag. Back in the early task force days, we would be
17 asked, the CDC would be asked, what's happening right
18 now with the epidemic. My response was you could
19 tell us what's happening. The blood banks, because
20 your information is a lot more timely than what we
21 have. Our time lag is over a month and I just wonder
22 what sort of -- what you are looking at, perhaps, to

1 evaluate the data.

2 DR. WHITAKER: The West Nile virus
3 organizational task force has been kind of working
4 with us to provide -- there are two answers,
5 actually. One is the system itself, which we are
6 collecting information about. But the data, which
7 is, I think, what you are addressing, we would like
8 to work with you to talk about the time lag, and
9 ultimately sort of -- I don't know whether there is
10 ever any exact answer as to the number, but we are
11 very much interested in working with the CDC, trying
12 to figure this out.

13 DR. KUEHNERT: We would love to evaluate
14 this as a surveillance system. It would be very
15 useful for us.

16 DR. BRACEY: Dr. Ramsey?

17 DR. RAMSEY: Is this decision used in the
18 decision-making for going to individual testing?

19 DR. WHITAKER: No.

20 DR. KUEHNERT: Would you consider having
21 that as a parameter that is displayed in some form?
22 You know, what areas are actively being screened by

1 pool?

2 DR. WHITAKER: It could be. It's entered
3 into the system right now. It's not a part of the
4 NAT. It's not a part of what is available to other
5 people to see, but that could very easily be
6 something that we could add to that.

7 DR. BRACEY: Dr. Duffell?

8 DR. DUFFELL: The AABB would be willing to
9 share access to the system to the committee members
10 just so they could explore the utility of it? I know
11 you said part of it is passworded?

12 DR. WHITAKER: I would like to share our
13 test site, rather than our live site, if you wouldn't
14 mind. It's exactly the same, except the data is not
15 live.

16 DR. BRACEY: Question from the audience?

17 CAP. WISE: Bob Wise. You mentioned the
18 denominator plans. I was wondering if you were
19 thinking in terms of having the contributing labs
20 report their weekly total of tests done as the
21 denominator?

22 DR. WHITAKER: We have talked about adding

1 denominator data. Not this year, but for next year.
2 That is one of the things we have considered. What
3 we want to do is cause the least burden as possible
4 for this process. So, it will be a discussion.
5 Clearly that would a good denominator.

6 DR. BRACEY: Thank you.

7 DR. KUEHNERT: Just let me go on record
8 that I didn't make that suggestion.

9 (Laughter.)

10 DR. KUEHNERT: I believe the denominator
11 is important, but I think we need to consider the
12 burden of supplying data as timely as weekly, when
13 you could use a proxy. That is an approximation.

14 DR. WHITAKER: Mat and I have talked about
15 that a little bit. One of the things we have
16 considered, just for ease of use, is population,
17 because population is just an estimate of what your
18 donor base is.

19 DR. BRACEY: Thank you. If there are no
20 more questions from the committee, we will move on to
21 the next talk, given by Dr. Michael Soucie, of the
22 CDC. Dr. Soucie is an epidemiologist with the

1 Division of Blood Disorders of the CDC. He will
2 speak on the surveillance system. He is in the
3 Division of Hereditary Blood Disorders, is what he
4 said.

5 DR. SOUCIE: Thank you. I would like to
6 thank Dr. Holmberg for providing me the opportunity
7 to inform the committee about the public health
8 surveillance system in the Division of Hereditary
9 Blood Disorders at the CDC, to monitor the end users
10 of certain blood and blood products.

11 (Slide.)

12 DR. SOUCIE: CDC has established a public
13 health surveillance system for product safety among
14 persons with bleeding disorders. The eligibility for
15 enrollment in this program is to receive care at a
16 federally supported comprehensive care clinic, which
17 we will talk about a little bit more in just a
18 minute, to have a congenital deficiency of any of the
19 clotting factor proteins below 50 percent of normal
20 or a diagnosis of von Willebrand's disease.

21

1 (Slide.)

2 DR. SOUCIE: This is implemented through a
3 cooperative agreement with a national network of 135
4 specialized hemophilia treatment centers, which are
5 clinics set up with major educational institutions
6 throughout the United States.

7 Part of the cooperative agreement is to
8 participate in blood safety monitoring and
9 surveillance efforts to collaborate with us and lay
10 organizations to deliver consistent prevention
11 messages having to do with not only the infectious
12 disease complications for these disorders, but other
13 complications which have been identified by the
14 consuming groups.

15 We also have, as far as the agreement, to
16 maintain a prevention evaluation network that helps
17 us to assess the efficacy of prevention services that
18 are provided to this population through this center
19 network.

20 (Slide.)

21 DR. SOUCIE: This is a map. The little
22 stars represent the distribution of the treatment

1 centers, which pretty much follows the distribution
2 of the U.S. population.

3 (Slide.)

4 DR. SOUCIE: This surveillance project is
5 referred to as the Universal Data Collection Project.
6 The design of the study is that it is a national
7 protocol. It is approved by the CDC, by RB, and the
8 IRBs of each of the participating institutions.
9 Every one of the IRBs at all of these treatment
10 centers has reviewed the protocol and the consent
11 forms. Enrollment involves issuing of data on a
12 standardized data collection form on an annual basis.

13 The data collection tools are designed
14 with input from experts on a working group consisting
15 of physicians, nurses, physical therapists and other
16 health care providers in these clinics.

17 We collect a blood specimen, which is
18 tested and also a portion of which is stored in the
19 CDC specimen bank for future studies.

20 (Slide.)

21 DR. SOUCIE: The blood specimen is tested
22 in the CDC laboratories for known infectious disease

1 agents, including hepatitis ABC and HIV because the
2 patients come back and are tested on an annual basis.
3 We compare current and previous results in order to
4 identify new infections that occur in the population.
5 Any new infections that are discovered are
6 investigated with the help of state health
7 departments and the FDA for any link with blood
8 product exposure.

9 (Slide.)

10 DR. SOUCIE: We have heard about some
11 issues having to do with privacy. All patients ore
12 parents of minor children involved in this project
13 give informed consent. Data and specimens are sent
14 to CDC with an identification code that cannot be
15 laid to CDC. The link is maintained at the treatment
16 center because the results of the testing we perform
17 need to be given back to the patient that is there
18 now.

19 In the institutions, some of the
20 institutional IRBs have requested a certificate of
21 confidentiality which can be submitted. We are in
22 the process of looking into getting the certificate

1 of confidentiality for the whole project all across
2 the United States, so that each participant does not
3 have to do that on their own. This does provide some
4 legal protection from FOIA and those kinds of issues.

5 (Slide.)

6 DR. SOUCIE: Just a little bit in terms of
7 enrollment. Since May of '98, when this project
8 began, more than 19,000 people with bleeding
9 disorders have been enrolled. The overall national
10 refusal rate is extremely low, 7.5 percent.

11 We attribute this to the fact that this
12 community was the impetus for developing this system.
13 They went to Congress and asked for a blood safety
14 monitoring system to address concerns raised, that
15 have already been raised in this meeting.

16 We have collected and stored more than
17 50,000 blood specimens from these patients. And of
18 the CDC specimen bank for future blood safety
19 testing. Ninety-one percent of the patients give
20 consent at the time the blood is drawn.

21 For an investigation related to blood
22 safety tissues, they are specifically told that there

1 will be no genetic testing done on the specimen other
2 than any genetic testing related to infectious
3 disease agents.

4 (Slide.)

5 DR. SOUCIE: A similar system has been set
6 up called the thalassemia surveillance system. Six
7 centers providing comprehensive care to people with
8 thalassemia. About 200 to 300 patients using these
9 clinics receive frequent transfusions. Since 2004,
10 more than 400 specimens from this patient population
11 have been collected, tested and stored.

12 This provides, as you all know, the
13 patients in the universe of data collection,
14 including hemophilia and other factor deficiencies
15 receive products that have been virally inactivated.

16 This group receives products more like
17 what we have been talking about for transfusions.

18 (Slide.)

19 DR. SOUCIE: The CDC specimen bank was
20 created to provide a secure environment for specimens
21 collected by CDC. It's a state-of-the-art facility
22 located outside Atlanta. It is protected by a guard

1 force, and freezers are electronically monitored 24
2 hours a day.

3 The serum bank provides the service for
4 all groups at CDC that are collecting specimens for
5 various projects. They receive and process the
6 specimens, then distribute the specimens either to
7 CDC labs or other labs as specified by protocol.

8 (Slide.)

9 DR. SOUCIE: The testing and investigation
10 -- we use testing algorithms to minimize false
11 negative tests. This a little bit different than
12 what you do in a clinical setting. For example, a
13 person who would test HCV positive in general in the
14 clinical setting would then get an RNA test. In the
15 clinical, we like to know what the viral load is, so
16 you can adequately treat the patient.

17 In the surveillance context, we do the RNA
18 testing on the specimens that are HCV negative. We
19 want to make sure that we have a possible false
20 negative test, and don't miss someone who has a new
21 infection. And we also want to provide what we show
22 is a negative baseline, which subsequently might

1 become positive in the future.

2 All of these new infections that are
3 discovered as part of this are confirmed with repeat
4 testing of new specimens. Complete information on
5 all blood and blood product exposures is obtained as
6 part of the investigation.

7 The epidemiologic investigations are
8 conducted generally by state health department. If
9 these are reportable diseases, we work with the state
10 health department as requested, if any assistance is
11 requested.

12 (Slide.)

13 DR. SOUCIE: In terms of monitoring the
14 results, there have been no new infections of Hep A,
15 B or C or HIV that have been attributed to blood or
16 blood product exposure during the periods since the
17 inception of controls through 2005.

18 The vaccination rates for hepatitis,
19 especially for hepatitis A, among bleeding disorder
20 patients have been improved. As part of our
21 prevention efforts in this community, we feel that
22 patients who receive these products should be

1 vaccinated, certainly, for all viruses that are
2 vaccinatorable. We have been monitoring that as part
3 of our testing of the blood specimens. We feel that
4 this system has provided reassurance of product
5 safety to the community, and we made a report of the
6 results now to date, including a routine surveillance
7 report, also, in the MMWR in January 2003.

8 We have also done a couple of special
9 studies. Just to give you a idea, we did a study of
10 markers of parvo virus, B19 exposure prevalence among
11 2-7 year old children. We found as part of that, the
12 prevalence was higher among hemophilic boys who use
13 plasma-derived versus recombinant factors. This has
14 been found to be the case for some time. And it is
15 now used in testing plasma pools of plasma-derived
16 versus recombinant factors.

17 We have also done a study of the
18 prevalence of antibodies of the West Nile among
19 bleeding disorder patients. It was initially thought
20 that the virus associated with West Nile virus is
21 susceptible to viral reactivation and that patients
22 using these products should not have an increased

1 risk, but we used specimens that we collected during
2 the mosquito seasons of 2002 and 2003.

3 We did West Nile virus testing on those,
4 and what we were looking for were cases of our
5 evidence of antibodies to West Nile virus in patients
6 who lived in areas which the virus had not reached
7 yet.

8 At that time, it had not reached the West
9 Coast. We found no cases of that. We found very few
10 people who had evidence of having been exposed, and
11 those patients that we did find were in areas that
12 had large epidemics.

13 So, it is probably most likely from that.

14 (Slide.)

15 DR. SOUCIE: In terms of emerging
16 infections, this group has talked about, to touch on
17 this a little bit, how do you set up a system to look
18 for something that you don't know exactly what you
19 are looking for.

20 You have got to sort of address the same
21 issue. The comprehensive care system that I
22 mentioned to you at these centers monitor the health

1 of the patients with bleeding disorder and
2 thalassemia. This is a relatively small community,
3 the centers take care of probably 70 percent of
4 hemophilia patients in the United States. And it is
5 a small community of physicians who take care of
6 these patients. They are very well connected with
7 each other.

8 So, we monitor this community quite
9 closely. Mortality is being tracked over time.
10 Other issues with looking at mortality -- we
11 certainly want to look at mortality rates and do try
12 to collect information as much as we can, about
13 causes of death.

14 The difficulties with that, as all of you
15 know, is that there are very few autopsies performed.
16 People die outside of the hospitals. But this
17 community is attuned to the population, and unusual
18 illnesses or changes in death rates may signal an
19 emerging infection.

20 Just to give you an example, that's not an
21 infectious disease example, but there have recently
22 been reported in the past two or three years, a

1 couple of cases of childhood leukemia in hemophilia
2 patients who received a radioactive dose injection
3 for their joints, which has raised the possible fear
4 that perhaps this exposure might be leading to
5 childhood leukemia.

6 This, again, is two cases. So, I just
7 give you that as an example. This is a very closely
8 monitored population, and unusual things, as has
9 already been mentioned at this meeting, clinical
10 observation of patients is really almost always a
11 source of new things that come along.

12 Once tests are available, if a new
13 infection is discovered and tests are available, the
14 serum bank has been generated in this population, it
15 allows quick testing to evaluate the scope of the
16 problem in this community.

17 (Slide.)

18 DR. SOUCIE: The potential for expansion -
19 - we certainly could expand it to monitor other
20 populations at risk. The example is the sickle cell
21 population, who are also intensively transfused in
22 certain conditions.

1 What I feel to be the necessary elements
2 for the system would be we certainly need some kind
3 of mechanism to be able to get serial sample
4 collection. That's the comprehensive care system
5 that allows this to occur. We need to have a
6 reporting mechanism.

7 We have talked about at this meeting
8 patient follow-up for investigation is critically
9 important, and we all know about the issue of
10 resources, not only for testing, but also for setting
11 up monitoring of these other populations.

12 (Slide.)

13 DR. SOUCIE: In conclusion, CDC has
14 established a surveillance system to monitor the
15 health and infectious disease status of certain
16 populations using blood and blood components. This
17 system could be expanded to include other patient
18 groups and I think that a system of care that
19 provides regular access to the population is crucial,
20 in terms of monitoring, I think, rare events such as
21 what we are talking about that occur with blood. It
22 might be useful to think about monitoring the

1 populations that have higher exposure levels to these
2 products as a possible adjunct to any system that we
3 would propose.

4 Thank you.

5 DR. BRACEY: Thank you. Question? Ms.
6 Lipton?

7 MS. LIPTON: I have known about the
8 system, but never in this kind of detail. I guess
9 two questions.

10 How is this paid for right now? And do
11 you know what the cost is?

12 DR. SOUCIE: The way this is funded is
13 that this cooperative agreement actually is the
14 result of a Congressional mandate. That essentially
15 is to monitor, to prevent complications, of
16 hemophilia and other bleeding disorders, funding in
17 the amount of about \$6 million to \$7 million per
18 year, comes into our group, that then goes out in a
19 cooperative agreement, to this comprehensive care
20 system, to provide not only some infrastructure
21 support, but also to be able to collect these data,
22 to be able to collect the specimens and some of the

1 money also is used to be able to establish testing
2 and so on.

3 DR. BRACEY: Dr. Epstein?

4 DR. EPSTEIN: This is really a comment
5 more than a question, but I am saving for later
6 discussion. One of the difficult issues we are
7 trying to wrestle with is whether we need to engineer
8 a comprehensive reporting system as part of the
9 biovigilance.

10 What is interesting about the CDC effort
11 is this a targeted population that is trying to be
12 both comprehensive and sentinel surveillance. I
13 think this offers us a possible alternative model of
14 biovigilance, which is intensive monitoring of
15 selected target groups, instead of comprehensive
16 monitoring of all donors and all recipients, in its
17 own right.

18 It is a very successful and well-
19 engineered and well-run program, but it is also, I
20 think, a model we might want to think about as an
21 alternative.

22 DR. BRACEY: Dr. Sandler?

1 DR. SANDLER: One of the problems I have
2 as a transfusion service director, are patients with
3 thalassemia and patients with hemophilia. The two
4 populations that you are addressing, they often don't
5 know exactly what their problem is.

6 A thalassemia person transfused all their
7 life doesn't know that they have a record of ABC and
8 GWA in their blood bank. A hemophiliac doesn't know
9 the level of their factor 8 or factor 9.

10 I would like to be able to access that in
11 my community, in my hospital. It's sometimes not
12 easy to get it. Could I call you and say, I have
13 John Smith. John Smith would love for me to know his
14 antibodies without me testing him. In fact, even if
15 I tested him, I couldn't get him.

16 Is there a way to access the information
17 you have?

18 DR. SOUCIE: Really, one of the key
19 features here, the reasons patients are so willing to
20 work with us on this, is we don't know who they are.
21 You couldn't call me and ask about John Smith because
22 I don't know John Smith.

1 If you had his identification number,
2 perhaps. But one of things that we wrestle with all
3 the time is this issue of really balancing
4 confidentiality issues with need to know issues.

5 You have pointed out sort of the weakness
6 here. And also I know some of the people were
7 talking about yesterday in the committee, how to get
8 patients and to get places to give you information
9 that they might not perhaps want you to have.

10 So, it's a balancing act between not
11 wanting to know but needing to know for other
12 reasons. There are many other reasons that we might
13 perhaps want to know. For example, if we were to
14 find out a certain lot of a certain product was
15 contaminated or something, it would be very useful
16 for us to know exactly who the patients were that
17 received that product. We collect it as part of our
18 surveillance what they receive. But we don't know
19 who they are.

20 It's the balancing act that you do to be
21 able to get the information and be independent and
22 not subject to subpoena or whatever.

1 By the same token, you need to have
2 information for an active emergency situation.

3 DR. BRACEY: Ms. Thomas?

4 MS. THOMAS: I definitely think this is a
5 very good initial system, but I would also like to
6 see it extended to different groups, especially
7 sickle cell disease.

8 Part of my question was answered a little
9 earlier, but I would also like to ask what do we do
10 as consumers to see that it is expanded into those
11 other areas?

12 DR. SOUCIE: I think as consumers, the
13 role of consumers, is let government know that this
14 is something of interest to the consumers. That's
15 about all I can say.

16 DR. BRACEY: Is it true that the
17 authorization for the thalassemic portion or part of
18 the study is about to expire? What is the status of
19 the funding long term?

20 DR. SOUCIE: There are a number of steps.
21 I don't claim to know all of them in the way that
22 Congress works, but one of the first steps is to look

1 -- you come up with the President's budget, which is
2 an overall look at all things.

3 It's true that the money that was
4 allocated for the thalassemia program that I
5 mentioned to you, in the President's budget was cut.
6 The consumer organization rightfully took exception
7 to that, and has made their wishes known. It's my
8 understanding that in the House budget it was
9 restored, but there is another step to it before it
10 will be restored.

11 DR. BRACEY: Question from the public?

12 MR. SCHULKROS: I am Len Schulkros. Mike,
13 has your surveillance of B19 enabled you to tell
14 whether there has been a reduction?

15 DR. SOUCIE: That testing was just getting
16 underway when we did this other study. The
17 difficulty with doing the study is you have to do it
18 with your very own children. By the age of 12 or 13,
19 almost half the people are exposed to it. You have
20 to get them very young before another group of people
21 get old enough to be able to tell, and whether it has
22 made a difference.

1 That's basically what we are doing. The
2 other issue is, I am not sure that it is doing to be
3 able to be done again. Many of the children that are
4 coming up these days, are being given recombinant
5 products. I don't know that we will have the
6 opportunity to have a large enough group of plasma-
7 derived patients to be able to do it.

8 DR. BRACEY: Thanks. I think we have time
9 for one last question. We are going to have to take
10 a lunch break, then reconvene shortly.

11 MS. HAMPTON: Jan Hampton, Hemophilia
12 Association of America. One is, are you seeing any
13 TJD? And the other is the identification situation
14 that you mentioned. Does anybody know who the donors
15 are on that? Because all the patients keep a log
16 with all those blood numbers on it. And in response
17 to the question asked over here, if somebody has a
18 record of who the numbers are, and you know a certain
19 lot was accepted, everybody keeps logs. Or, they are
20 supposed to, of what lot numbers are used in their
21 patients.

22 DR. SOUCIE: Well, those are two really

1 difficult questions. I guess I will address the
2 second one first. It is extremely difficult to get
3 information about the product that is being used by
4 the patient.

5 The bottom line is that it is not a matter
6 of routine that people collect that information,
7 particularly those who use a lot of the factor
8 concentrates. It's a very tedious task to keep up
9 with all the lot numbers.

10 We are working on a pilot study right now
11 because of another complication of hemophilia, and
12 that's antibodies to certain of the products. In
13 that case, we need to have all the exposures.

14 So, we are working to find out what ways
15 we can encourage patients to keep track of the
16 products that they are using. Why patients are
17 encouraged to do that. In the United States they are
18 not mandated to do it, and many of them don't.

19 MS. HAMPTON: The health care company
20 knows about that. I assume you could do the same.

21 DR. SOUCIE: It's possible. You can get
22 information about what's being distributed, but

1 because it's a genetic disease, there is often more
2 than one person in a household and while it's assumed
3 all the blood you send is actually used all the time,
4 but there are a lot of issues involved.

5 I'm sorry. I've forgotten the first
6 question. Oh, VCJD. That is obviously the subject
7 of great interest, not only just in the United
8 States, but in the world. To date there has not been
9 a VCJD person with bleeding disorders, but they are
10 certainly being heavily watched for that in our
11 system.

12 All the physicians have been advised of
13 what the symptoms are. The system has been set up
14 with CDC that allows that anyone who has a patient
15 who may be suspected of having VCJD, not necessarily
16 in bleeding disorders. And any hospital anywhere can
17 contact this group at the CDC and get pre-testing and
18 biopsy results and so forth, for VCJD.

19 All the cases, it is my understanding --
20 and Dr. Epstein would know this better than me --
21 that have been discovered in the United States have
22 been cases from outside of the United States. And

1 none so far in the bleeding disorder community.

2 DR. EPSTEIN: Those statements are
3 correct.

4 DR. BRACEY: Thank you. In the interests
5 of time, we will close the session for this morning.
6 I would ask that we take an abbreviated lunch, if
7 possible, then have the audience return at 1:00 -- as
8 close to 1:00 as possible.

9 For the committee members, all who are
10 interested in working on a draft recommendation for
11 the Assistant Secretary on the topic of biovigilance,
12 you can have lunch delivered here, and we will
13 working lunch for all members working on the draft.

14 It's 12:25, and we are in recess until
15 1:00.

16 (A lunch recess was taken at 12:25 p.m.)

17

18

19

20

1 wasn't one of the ones involved in an outbreak of
2 infections in nurseries nationwide. But in the
3 1950's, there were a lot of outbreaks in nurseries,
4 and we proceeded to investigate these outbreaks.
5 These were well babies, and those investigations --
6 it was felt that there were no data to baseline, to
7 compare against. So the idea of doing surveillance
8 at the time in hospitals those were called nosocomial
9 infections.

10 So the CDC actually started a very small
11 pilot project or surveillance called CHIP. That was
12 Comprehensive Hospital Program. I think that was
13 what it was called. That was started in the 1960's.
14 Also started in the 1960's the Joint Commission on
15 Accreditation of Hospitals, as it was known then,
16 added its first standard for infection control to the
17 hospital set of standards, which was the beginning of
18 what became over the years or decades, very strong
19 language.

20 In the 1970's that standard was
21 strengthened to include trained personnel designated
22 to conduct infection surveillance, prevention and

1 control activities. During the 1970's as well, CDC
2 established training curricula and conducted courses
3 in infection surveillance, prevention, and control.
4 We invited any hospitals that wanted to come down to
5 train.

6 In the 1970's CDC replaced the CHIP
7 Program with the National Nosocomial Infection Study,
8 a voluntary system of hospitals selected initially,
9 for the people who were invited to participate were
10 those that had participated in the infection control
11 training course.

12 They realized at that point that in order
13 to do surveillance, it needed to be someone who was
14 already trained in infection control in surveillance
15 as it was at the time, to begin collecting these
16 data.

17 It was voluntary, and at the time there
18 was no confidentiality protection despite the fact
19 that patients were identified with the data that were
20 collected. But this was the 1970's.

21 (Slide.)

22 MS. HORAN: CDC realized that

1 confidentiality protection would be important because
2 these data could be potentially used against the
3 hospital in the case of a liability claim. When CDC
4 was afforded the opportunity to grant confidentiality
5 protection, in 1982, the NNIS system was the first
6 system that applied for that assurance of
7 confidentiality and has had that protection in place
8 ever since.

9 It is not a blanket protection in the
10 sense that when you apply for it you always have it.
11 It has to be renewed. We constantly renew that and
12 review the need for it. We currently do have
13 confidentiality protection in place.

14 This protects the institution's data as
15 well as the patient's data. In the 1980's also, CDC
16 reported the findings of the SENIC study, which was
17 mentioned here yesterday. SENIC was a study of the
18 efficacy of nosocomial infection and control. That
19 was a study conducted at CDC beginning in 1976 that
20 really established the science.

21 The main finding of SENIC was that about
22 32 percent of hospital-associated infections could be

1 prevented if appropriate surveillance, prevention and
2 control activities were performed.

3 These would be conducted by trained
4 infection control professionals and hospital
5 epidemiologists. In the 1980's, CDC also gave over
6 the training activity to the Association of
7 Professionals in Infection Control, or APIC, which is
8 an organization established in 1972.

9 Also in the 1980's, APIC established
10 certification for infection control professionals.
11 That requires experience as well as passing a
12 certification examination in five years.

13 (Slide.)

14 MS. HORAN: In the 1990's, the NNIS system
15 expanded to include more than 300 hospitals. It had
16 developed by that time protocols for targeted
17 surveillance of high-risk patients that yielded the
18 data useful for inter- and intra-hospital
19 comparisons. These were risk-adjusted rates of
20 infection that were found to be useful for
21 comparative purposes and helped drive prevention
22 practices at local institutions during that time and

1 to the present.

2 We publish an annual NNIS report which has
3 all these data in it. The result of this is that
4 hospitals that are not participating in the NNIS
5 system -- at that time there were at least 300 and
6 some -- were able to use the same methods,
7 definitions and protocols to compare their data to
8 the national aggregate, even though they were not
9 actually contributing data to the system.

10 So, it had a large spread. The NNIS
11 system really has been a model, I think, for
12 nosocomial health care associated infections in
13 hospitals for the entire world.

14 In this decade, patient safety has become
15 one of the buzzwords. And one of the issues that has
16 brought the spotlight onto infection control, and it
17 has really helped to galvanize many other
18 organizations that are interested in protecting the
19 patients.

20 Because we have data, it's easy to say,
21 well, gee, if there are two million infections
22 annually in the hospitals, surely we should be able

1 to do something about this, especially since we know
2 that at least a third of them should be preventable.

3 Many activities that are going on around
4 the country right now through the Commission, through
5 the federal government, for work on prevention
6 initiatives, bundling together, if you will,
7 prevention best practices and monitoring those
8 processes and also continuing to collect the data on
9 the outcomes. Those have proven to be quite powerful
10 initiatives. And lots of infection reduction has
11 been reported by groups, such as the Pittsburgh
12 Regional Health Care Initiative in Southwestern
13 Pennsylvania; the Keystone Project in the State of
14 Michigan and others.

15 In addition, the other driver of movement
16 and activity in the infection control world right now
17 are state mandates for public reporting. This has
18 largely been consumer-driven. These are consumers
19 who have information about hospitals that can help
20 them make decisions as informed consumers as to
21 whether they want to have their care in that
22 facility.

1 And infection rates are deemed to be one
2 of the aspects that is important in making that
3 decision. Currently, 14 states have passed
4 legislation. Each state has a different set of laws
5 that are struggling to figure out how they are going
6 to make this work.

7 Most of them didn't get any money. Six of
8 those states have chosen to use the National Health
9 Care Safety Network as their reporting mechanism for
10 meeting their state mandates. I'll talk a little bit
11 more about that later.

12 (Slide.)

13 MS. HORAN: What are the key features for
14 success? In a system like the NNIS system, or its
15 predecessor, who have a 35-year history. The
16 standard definitions for the events themselves,
17 specified monitoring protocols, descriptions about a
18 how the surveillance should be done, are key aspects.
19 Equally key is feedback of actual data to the
20 participants. That's not to say that we manipulate
21 and feed it back. We do that in the form of the
22 aggregate, but each individual facility is

1 responsible for their own data analysis. We give
2 them the tools to do that in a variety of ways.

3 Part of the training we do with them is to
4 help them understand how to do the analysis, how to
5 report that, and how to motivate them to change their
6 institution. It's very active surveillance on all
7 levels. The key player here is our trained personnel
8 for data collection and prevention and intervention.

9 These people are the local experts in
10 their facility that are the go-to folks when the
11 white powder incident hits. Anything that has to do
12 with infectious diseases or even semi-close to
13 infectious diseases, that happens in communities, the
14 infection control person is the champion, to decide
15 it. So, having a person in the institution taking
16 responsibility and be empowered to have
17 responsibility is the key issue. And I know it's one
18 they are starting with biovigilance.

19 (Slide.)

20 MS. HORAN: As a system, we have been able
21 to show a reduction in rates, as you see from the
22 decade of the nineties and beyond. These are some

1 sample data of central line associated BSI rates, by
2 ICU type, and the amount of reduction, 44 percent, I
3 believe, in the medical ICU.

4 We also have reductions in surgical site
5 infection rates as well. This was all before the
6 national patient safety prevention initiative, as we
7 carried it up to 2006.

8 (Slide.)

9 MS. HORAN: The purposes of the National
10 Health Care Safety Network, or NHSN -- there are
11 actually three systems that are integrated into NHSN.
12 The NNIS system, which I mentioned. We also have an
13 outpatient dialysis surveillance system. And that is
14 integrated into NHSN now. And we are in the process
15 of integrating our National Surveillance Health Care
16 program into the system.

17 Exposure to blood and body fluid, vaccines
18 for non-preventable diseases, and vaccinations of
19 health care personnel. Our purposes are to describe
20 the epidemiology of adverse events among patients in
21 U.S. health care facilities to monitor compliance.

22 With proven infection prevention practices

1 in the facilities, to promote the use of
2 epidemiologically sound surveillance methodology, and
3 to establish comparative rates that can be used for
4 local quality improvement efforts. And further, to
5 have a ready pool of facilities that would engage in
6 collaborative research on a variety of issues.

7 (Slide.)

8 MS. HORAN: There are three components
9 currently to the National Health Care Safety Network.
10 One is patient safety, which is an extension of the
11 NNIS system, but it can grow to accommodate may more
12 events than we do currently.

13 The health care personnel safety
14 component, again, is focused on health care workers,
15 and we have a research and development arm, who do
16 one-time surveys or pilot studies, that sort of
17 thing.

18 It is still a voluntary, confidential
19 system.

20 (Slide.)

21 MS. HORAN: To focus on the patient safety
22 component, because I think that's of interest to this

1 group, we have three modules. A device associated
2 module, one is focused on procedures, one on
3 medication. The devices that are of interest to us
4 currently are those medical devices associated with
5 infectious outcomes. Central line and blood-borne
6 infections, urinary tract infection, and pneumonia.
7 The facility chooses which event and which processes
8 they want to monitor on a monthly basis, and which
9 patient population they want to focus on. It's very
10 dynamic and it is up to the local facility to know
11 where their problems areas are, or what areas they
12 need to focus on and choose those to do the
13 monitoring.

14 It's always of value to them. We are not
15 telling them what to do. It's up to them to apply it
16 to the area of their institution where they need to.

17 For a procedure-associated module, the
18 facility chooses the events or processes they want to
19 monitor and the procedures. In this case right now,
20 we have operative procedures. But those procedures,
21 as I will show you, could expand. They can choose
22 which procedures they want to focus on. These can be

1 in-patient or out-patient procedures.

2 And the medication-associated module
3 really is currently focused on reporting anti-
4 microbial resistance data and anti-microbial use data
5 in relation to the infection.

6 In discussions with this committee before,
7 and in discussions with NAT, what would a possible
8 transfusion recipient surveillance look like, if we
9 were to incorporate it into the NHSN? Everything I
10 tell you about this, after this morning's
11 presentation, can probably be done at the donor
12 center as well.

13 There is nothing magical about a hospital
14 here. You've got to continue most places where you
15 might be able to gather data. There is no reason you
16 shouldn't use this in a donor setting as well.

17 But the focus now, is sort of on the
18 hospital or places where transfusion recipients
19 events are. We envision that our procedure-
20 associated module might be able to accommodate
21 something called a transfusion-related event.
22 Whatever you want to call it.

1 Numerator data could be collected that
2 includes patient data, transfusion reaction data,
3 whatever the appropriate data are. In the numerator,
4 including risk factors. Also, denominator data,
5 could be collected on whatever the relevant bits of
6 information are for each type of blood product,
7 transfusion procedure.

8 But of course we consider whether the
9 process monitors might be useful as well.

10 (Slide.)

11 MS. HORAN: I took our demonstration
12 application and I created an event type up there
13 called transfusion related reaction. I made up a
14 procedure called blood transfusion. These are other
15 data fields that exist on the form, but after risk
16 factors, whatever the appropriate risk factors were
17 detailed about the event, could be built in here or
18 down here, under specific event details. A blood
19 transfusion if these -- or particular events
20 associated with a blood transfusion, you might want
21 to have them here, and have specific information
22 selected about them.

1 (Slide.)

2 MS. HORAN: On the denominator side, the
3 procedure model, a blood transfusion is also
4 considered a procedure. We might want to put in
5 additional procedure details here.

6 Another important to consider, if some of
7 these data reside in other databases at the facility
8 could they simply be pulled in. I think there are
9 definitely ways that can be done, so that nobody has
10 to manually enter them.

11 Of course, they have to exist in another
12 system in order for that to happen.

13 (Slide.)

14 MS. HORAN: I want to talk about data
15 sharing. The model that we use right now for NHSN is
16 that a hospital or a facility -- it doesn't have to
17 be a hospital, it can be any type of health care
18 facility -- joins NHSN.

19 Their data then come directly to CDC and
20 are stored in a centralized database.

21 The facility always has access to those
22 data through the internet. Any time they want to,

1 they can download their data and put it in their
2 package and store it anytime they want to.

3 But there was a need before mandatory
4 reporting, and there is a need for facilities to
5 share their data with others. Maybe their corporate
6 headquarters they would like to get data from.

7 So, we wanted to find a way we could
8 enhance the data sharing that wouldn't violate our
9 confidentiality protection with the institution.
10 Because CDC is not allowed to send data to state
11 health departments, for example, or other entities.
12 We wanted to have a way that the facility could make
13 that happen.

14 One way it can happen is shown at the
15 bottom here. Hospitals are facilities that use NHSN
16 that can create data files of a variety of types and
17 give those to anyone they want to, with the actual
18 data in them.

19 They can take identifiers out if they
20 wanted to, but that always exists. But another
21 functionality is at the group level that we created.
22 The way this works is that a group can enroll in

1 NHSN.

2 (Slide.)

3 MS. HORAN: That is a very simple process.
4 Once they enroll, they have an ID number. They give
5 that information to whatever NHSN facilities they
6 would like to have join their group. The facility
7 then is the one that makes the decision about whether
8 they want to join the group. And then they grant
9 access rights to some or all of the data.

10 One of the rights they obviously would
11 want to give to the group is the ability to analyze
12 as well.

13 (Slide.)

14 MS. HORAN: This is a shot of what that
15 confer right looks like now. Although we are now in
16 a process to make it actually more granular so that
17 the facilities can really kind of limit what they
18 share.

19 If you can imagine where they are in a
20 situation where they are mandated to share data with
21 the state health department, and there could be some
22 negative action by the state, if they so chose to do

1 that. Then the facility is not going to give any
2 more data than it has to.

3 We are trying to make this even more
4 specific, but currently this is what we have. The
5 way that it works, as the facility brings up the
6 screen, they will be conferring rights. In this
7 case, this is the one that I actually created for
8 training the New York State Department of Health. We
9 heard yesterday that they are one of the states that
10 is using NHSN. The actual group in New York is the
11 New York State Department of Health and the facility
12 in New York would grant view rights to the patient in
13 New York. They didn't want the identifier. They
14 indicated they did not want a patient level
15 identifier. At the event level they choose which
16 events they want to share. In this case, New York
17 wants blood stream infection, so they got a view
18 right to that. And surgical site infection. You can
19 imagine those would just be on this listing to be
20 specified for sharing with other groups.

21 (Slide.)

22 MS. HORAN: In addition, the denominated

1 data need to be shared if one wants to calculate
2 rates or levels or view rights to the appropriate
3 denominators for those numerators. Then something we
4 call our patient safety plan really the road map that
5 CDC uses because there is so much flexibility built
6 into the system, they input a lot more stuff in there
7 that isn't part of one of our surveillance protocols.

8 We don't really want to analyze anything
9 that is not part of our protocol. We want to know on
10 a monthly basis which of these data they do need as
11 protocols so we can appropriately analyze the data in
12 the aggregate. That is what the plan is about.

13 Annual surveys are data once a year,
14 supplied by the hospital. In the case of the
15 hospital survey, it gives us information about their
16 microbiology laboratory, their staffing for infection
17 control, do they have people available to do
18 surveillance and that sort of thing.

19 These would be useful indicators for us as
20 we analyze the data.

21 Finally, and again, very importantly, is
22 the analysis. Usually what a group wants to do is

1 pool the data together across facilities and figure
2 out what is going on at various levels.

3 (Slide.)

4 MS. HORAN: I know these questions came up
5 yesterday. I will pose them again because we are
6 struggling to find the answers. But as you are
7 thinking about what kind of system or systems are
8 needed for hemovigilance or the broader biovigilance,
9 one main question is, are the data readily available?
10 Do you have sources of data for numerators and
11 denominators if you want to collect? Also, do you
12 have data collectors?

13 I think I have heard they really don't
14 exist at the moment, at least not as a parallel
15 position, like the infection control practitioner.
16 If there isn't a data collector, what is the
17 incentive for institutions to have one?

18 I give you the experience in our history -
19 - infection control. But I would like to add to
20 that, and say that there is a new position that has
21 been established, in the last several years in many
22 hospitals called a patient safety officer. The

1 hospital pays for that, and it is not the infection
2 control practitioner in many cases. It a response to
3 a push by the community and the consumers saying,
4 hey, we need patient safety. Somebody needs to stop
5 these errors from occurring.

6 So the patient safety officer has sort of
7 sprung up in institutions. Perhaps that is a
8 position that could be taken advantage of. What
9 adverse events are you interested in collecting?
10 This is a sentinel. Do you need all of the patients
11 or a sample of the patients? Should you choose what
12 you monitor based on what is most frequent or most
13 lethal?

14 Those are all questions we can consider.
15 And can it be phased in? Does it have to be the
16 entire enchilada all at once? Or can you have sort
17 of a pieces and parts approach? Where you gradually
18 grow into something that is bigger and more
19 comprehensive.

20 (Slide.)

21 MS. HORAN: Confidentiality and voluntary
22 was mentioned already. Also, what about other

1 systems? There still seem to be more to come.
2 Should there be a linkage between these systems? If
3 so, what kind of data sharing agreements would be
4 necessary? Are there database manager and even
5 integration issues? Is that more realistic in the
6 short term or is that more part of the vision for the
7 longer term?

8 But of course the resource question is
9 obviously critical. With that, I will leave you with
10 our members web site. That web site will be going
11 public. But for now you will have to type that in and
12 take it to your bookmarks so you can find it again
13 later.

14 Otherwise you won't be able to find it.
15 But we are in the process of moving. With that, I
16 will stop.

17 DR. BRACEY: Thank you very much. Ms.
18 Lipton?

19 MS. LIPTON: Thank you. I am glad I had
20 the opportunity to see some of this. Could you share
21 with the committee the same question of how is this
22 funded. What does it cost, and particularly, the

1 module that we were sort of looking at developing, a
2 blood module, roughly, what would that cost?

3 MS. HORAN: We don't have any module for
4 surveillance. CDC has a history of surveillance as
5 part of its mandate. A lot of that is done with base
6 funding that we get. To be quite honest, we have
7 cobbled together lots of hobby horses to build what
8 little I have shown you of our system.

9 I would not say that it is fully funded at
10 this point. We don't have a source of funding, like
11 an earmark. We would love to claim that. However,
12 we do make it work.

13 How much does it cost us? Honestly, I
14 can't tell you. In both salaries and development I
15 can tell you to develop the patient safety side or
16 the application, the web based application, has cost
17 us probably, if you count our salary time of our
18 staff, probably in the order of \$3 million to
19 \$5 million thus far.

20 But it is the infrastructure. The hard
21 part, if you will, is done. So much of the work of
22 integration is done. The security aspect is done.

1 The analysis capability framework is there, so I
2 think a lot of the major work has been completed.

3 That's one answer. What is the cost to
4 the hospital, might be another answer. It is free to
5 join NHSN. No annual cost. CDC incurs a fee of \$100
6 for every additional certificate that is used. A
7 person who uses the system has to have a digital
8 certificate in order to ask us. That is part of our
9 security.

10 The hospital pays for that, and right now
11 we have over 600 users and about 250 hospitals, so we
12 expect -- and those have to be renewed annually.
13 That cost so far is being absorbed somewhere that I
14 don't want to ask about.

15 (Laughter.)

16 MS. HORAN: We have cobbled together money
17 for this fiscal year to do some enhancements for the
18 system to the tune of about \$840,000 for some
19 enhancements. I wish I could say I know exactly how
20 much it costs. Trying to do something with this
21 group, it would only really be a guess.

22 So, I am kind of reluctant to do that kind

1 of guessing, but I would say you ought to think in
2 terms of at least half a million dollars to get
3 started, and that wouldn't be in a year. That would
4 be over some period of time, again.

5 MS. LIPTON: And you don't have any idea
6 what the training costs are? There are costs to
7 having a professional in the hospital, whether that
8 person is an infection control person or not, which
9 they are, but clearly the organization has some cost
10 involved.

11 MS. HORAN: Again, the Association for
12 Professional Infection Control offers lots of
13 training courses, which hospitals or individuals can
14 pay for.

15 We provide for our system and our protocol
16 and methodology training. In the past with NNIS, we
17 actually had funding from an outside source, to bring
18 them to Atlanta, to train them for three and a half
19 days, and with the computer and with the experts, as
20 well as other training opportunities. We don't have
21 that set up right now. But that really worked well
22 when we did. What we would like to see and what we

1 are working with the states on that are using this,
2 is to have their chapters of the Association for
3 professionals in infection control to train the
4 trainers.

5 For us to train the trainers and for them
6 to take over state responsibilities for training
7 others. That seems to be resonating with them. They
8 are actually doing that in New York right now. That
9 would be five states. They seem to like that idea.
10 We are going to try and feed on it.

11 Training is an incredibly important
12 aspect, and as much as the organization can help do
13 that, I think it would really help a lot.

14 DR. BRACEY: Dr. Whitaker?

15 DR. WHITAKER: Did you say \$3 million to
16 \$5 million or \$35 million?

17 MS. HORAN: Three to five.

18 DR. WHITAKER: My second question is, the
19 infection control officers in the hospital, could you
20 describe their training? And perhaps their other
21 responsibilities?

22 MS. HORAN: Infection control

1 practitioners are by and large 50-something year old
2 nurses. We need to train a whole lot of new ones.
3 Most of them came out of a background of nursing,
4 although I was an infection control specialist in a
5 hospital. I came out of the biology lab. So there
6 are some laboratories as well as environmental health
7 specialists. By and large, it's largely nurses.

8 As I have heard discussed here, these are
9 people who become the experts in a wide variety of
10 the infection surveillance, prevention and control.
11 They interact with all levels of the institution,
12 from the housekeepers to the CEO, to the nursing
13 staff concerning everyone that touches a patient.
14 The infection control departments and professions
15 don't prevent infections. Patient care still
16 prevents infections by doing the right thing every
17 time with the patient. So, it's no different from
18 what you are struggling with. Each person that has a
19 part to play, from drawing blood to giving
20 transfusion to following patients is involved
21 somehow.

22 I had to laugh. I was recently in

1 Northern Ireland to present NHSN to their Pan Celtic
2 Society. They have adopted as their motto, infection
3 control is everybody's business. And I laughed
4 because when I took my job, my first infection
5 control job in 1979, that's what my predecessor told
6 me. It hasn't changed. We don't make the
7 difference. It's getting the information to the
8 people who can use it, to actually give better
9 patient care.

10 The training they have is largely whatever
11 they get in their professional discipline and then
12 again, CDC used to provide a lot of that training.
13 We are out there, talking and training people all the
14 time in our methodology. They do have a
15 certification exam that they have, with their own
16 practice. You have to have at least two years of
17 practice and then a comprehensive exam, which is
18 renewable within five years.

19 There are states now that are mandating
20 and certifying infection control professionals be
21 hired.

22 DR. RAMSEY: Sometimes there has already

1 been some overlap in many of these institutions.

2 Infection control professionals can be very helpful.

3 MS. HORAN: They can be a very useful
4 partner in patient safety in general. Certainly they
5 would be interested in the infectious aspect, as well
6 in both the surveillance methodology and prevention
7 and control activities.

8 DR. BRACEY: Thank you. Our next speaker
9 is Dr. Harold Kaplan. Dr. Kaplan is Professor of
10 Clinical Pathology, familiar to many in the audience,
11 from Columbia University. He has been instrumental
12 in putting together a system for error detection, and
13 he will speak on that.

14 (Slide.)

15 DR. KAPLAN: I am getting off to my usual
16 good start.

17 (Slide.)

18 DR. KAPLAN: This cartoon underscores, in
19 an eloquent way, what we are about. It also
20 underscores an important point. Adverse events and
21 also safety are really emergent properties for very
22 complex systems. I think the success of failure of

1 any central biovigilance program is very much needing
2 another example of an emergent property.

3 (Slide.)

4 DR. KAPLAN: One of the things I am going
5 to stress in this talk is that the local data
6 complexion -- what goes on locally -- has a big
7 effect going out, and what the central system has to
8 say is has a big effect on what goes on at the local
9 level.

10 (Slide.)

11 DR. KAPLAN: The MERS system was developed
12 just parenthetically in two stages. One, with a
13 Delphi, which we actually identified from their point
14 of view, expertise in other reporting systems, and
15 human factors. So, we started with the ideal method,
16 rather than working from where we were what would be
17 ideal. That was a three-round Delphi.

18 Then we had experts in transfusion and
19 human factors and participation on the part of FDA,
20 ARC and others. That second set of meetings was
21 defined based on the ideal coming on down from there,
22 rather than coming up, what was actually

1 implementable.

2 It started as a paper-based system. It's
3 now web-based, at 22 hospitals in several countries.
4 The events are deviations from certain current
5 policies or current operating procedures. These
6 events are classified by actual severity or potential
7 severity, and the presence or absence of recovery.

8 (Slide.)

9 DR. KAPLAN: This is really a little
10 personal humor here. Late last night, after a few
11 drinks --

12 (Laughter.)

13 DR. KAPLAN: But it's not because of that.
14 I just noticed that I went from a PC to a MacIntosh.

15 (Laughter.)

16 DR. KAPLAN: And the MacIntosh didn't
17 transfer the print. So, late last night I put the
18 print in, there's a flash disk. So I will go through
19 this with you.

20 Actually, it's a teaching device.

21 (Laughter.)

22 DR. KAPLAN: The upper portion of the

1 slide is the local system. An occurrence is then
2 detected and then a report is submitted into the
3 local system. The system operator -- the SYSOP --
4 then looks at that, validates it, expands the
5 information about it, and then it goes into the local
6 system.

7 And on the management side, an action is
8 taken, whether or not the report requires or is
9 desired to be reported. I think with the PSO, the
10 recent PSO legislation, the encouragement of
11 reporting is general and there is somewhat fear
12 associated with it, but it may be decreased.

13 The important kind of grid statement is
14 the feed factor. That is the fundamental thing
15 locally, and I think maybe in the central system.
16 The feedback has to take place, and has to be locally
17 useful. I'll get back to that. That feedback point
18 is very valuable.

19 I didn't think of bringing the data with
20 this, but I'll just mention -- because the issue of
21 nursing came up, and at what level we approach the
22 nursing, because they are so critically involved in

1 the process of transfusion.

2 The place to approach nursing is locally.
3 When I say locally, that needs to be defined further.
4 It was defined by one of the hospitals using MERS.
5 We were reporting, for example, selected specimens to
6 MERS, the general nursing department. Everybody was
7 concerned. But there was a big difference when we
8 started reporting the local nurse managers, the unit
9 managers, because they could get their arms around
10 their own units.

11 The feedback we gave to the individual
12 unit managers was a critical value. We extended that
13 relationship with nursing and approached them because
14 we got some discarded units from the floor that
15 hadn't been given the required time interval.

16 Looking at that, some of them had been
17 actually set up to be administered. Supposedly the
18 patient had been identified, and was at the point of
19 final give, that they recognized that it was the
20 wrong patient. We recognized there that people often
21 were ordering blood to get them on the floor so that
22 they are available and we can give them.

1 We carefully try to control issuance of
2 blood, one at a time. What would happen was we would
3 issue one at a time and they would sit there because
4 they didn't have venous access or permission to
5 transfuse, so we had to come back. Because within
6 the 30 minutes allowed, they couldn't administer it.

7 It gave us some insights because now, we
8 have this clever idea of controlling the number of
9 units available. The units were building up on the
10 floor, and that unit was available, but it may be the
11 wrong unit. It became a problem for the director of
12 nursing.

13 They redesigned the forms. Before they
14 would call for pickup, we do have access and we do
15 have consent forms. I think that is an example of
16 engaging nurses at a very important level that
17 reflects what you want in the feedback. Down
18 there, you can see the system then reports into the
19 MERS. The MERS database becomes available then to
20 the local hospital who reported it.

21 The difference here is that we don't know
22 who they are.

1 DR. KAPLAN: They know who they are. They
2 can get their own data. We don't know who they are.
3 They can also look at aggregate data. The numbers
4 are numerator numbers. We have a number of people
5 interested who are willing to send us the
6 denominator. We have groups from the hospital, some
7 not sure how to use the benchmark data.

8 Most of what we have is a pull system.
9 People can pull data and play with it. It comes into
10 an Access database, or Excel. They can get the data
11 as they will.

12 As far as the push goes, this is something
13 we hope to expand considerably. We had some
14 preliminary discussions with AABB. Instead of making
15 more readily available the on hand reports, I am not
16 sure that pool systems have all the truth in them.

17 (Slide.)

18 DR. KAPLAN: I want to make a comment now.
19 The good news about PSOs is what I think everybody
20 understands. Hospitals, as they start getting more
21 aggressive about having hospital based reporting
22 systems, where does a domain system fit in?

1 New York State, as Dr. Linden said
2 yesterday, has kind of early on, solved that problem
3 by breaking out the transfusion domains, specific
4 reporting. So people don't view that as redundant
5 extra work.

6 The most important element in the
7 reporting systems, particularly at the local level,
8 is detection and reporting. Selection is critical
9 both at the local and at the higher, aggregate level.
10 Analysis, application, and monitoring are all
11 important.

12 But I want to stress the detection and
13 reporting for the moment.

14 (Slide.)

15 DR. KAPLAN: Believing is seeing. Our
16 definitions define what we see. Organizations
17 disregard events outside their classification scheme.

18 For this meeting, an important point is,
19 that compliance often sets the limits of visibility.
20 Somebody up high says, I want you to report, is what
21 people are going to be paying attention to. It is
22 important to keep in mind there may be valuable

1 information locally that will get short shrift if you
2 don't keep in mind that people are going to pay
3 attention primarily to what they've got to do.

4 (Slide.)

5 DR. KAPLAN: The classification scheme to
6 be used in MERS, events with harm and misadventures,
7 events without harm for one reason or another, they
8 may not have the potential for harm, the near-miss
9 events, whether planned or unplanned, recovery,
10 that's an area we haven't studied enough, recovery.

11 Errors occur throughout medicine all the
12 time. We don't really look at recovery the way we
13 should.

14 Then, finally, the dangerous situation. I
15 don't think that has gotten enough play. We have to
16 wait for the event to trigger looking into something.

17 (Slide.)

18 DR. KAPLAN: One of the virtues of near-
19 miss reporting, the criticism is it's very reactive.
20 That's true. But as you look at events without harm,
21 and near-misses, you become much more proactive.
22 That changes the nature of what's being reported.

1 Event reporting. I don't believe there is
2 ever going to be fundamentally a good quantitative
3 system. But it does have other virtues. The other
4 is it engages the staff in looking at the things that
5 can be improved.

6 (Slide.)

7 DR. KAPLAN: It's what you do, not what
8 you say. Now, the importance of near-miss reporting,
9 and this idea of making things more proactive, has
10 hit on many of the reporting systems.

11 In the U.K., they have defined fairly
12 aggressively what a near-miss is. They are very
13 concerned about the fact that less than half the
14 hospitals are reporting. They are also concerned
15 about what is the power-weight ratio. How do you
16 handle that ratio if people do report it? There is
17 going to be a workshop and some other discussion in
18 November on how to handle reporting.

19 There are going to be aggregate problems
20 on summary data in the central system anyhow. The
21 question of near miss reporting can be very important
22 at the local level if the numbers go up tenfold, as

1 they may.

2 France has a hemovigilance system. It has
3 near-miss defined as grade zero. It reaches the
4 patient, but there is no detected adverse event.

5 The U.S., the FDA has, I believe since
6 2001, the requirement for reporting. Components are
7 issued from the transfusion service. Nothing to do
8 with whether there is a bad reaction or not, other
9 than a fatality.

10 Canada, we have heard about. And there
11 are some Canadian hospitals.

12 And Ireland had a three-year pilot, MERS
13 event reporting four near-misses. I hope they get
14 funding to go forward with that.

15 (Slide.)

16 DR. KAPLAN: By the way, we understand
17 they are using a paper-based system in Croatia, which
18 they got off our web site. The changes in AABB
19 standards clearly now require monitoring, and
20 tracking and treating them as important occurrences.

21 (Slide.)

22 DR. KAPLAN: We got the definitions. We

1 got how we would detect. How do you get them to
2 report it? The issue here is to get adoption rather
3 than compliance. Compliance is where most of us are.
4 For adoption, trust and motivation. I want to get
5 into the issues, both in terms of trust locally and
6 in terms of punitive action. But also at any level
7 centrally. That will stop any system in its tracks.

8 Finally, for motivation, we were talking
9 about timely and effective feedback, and demonstrable
10 local usefulness. So, it's not something in a black
11 hole. I am busy enough, I don't want to do anything
12 else.

13 (Slide.)

14 DR. KAPLAN: Heimreich's ratio was found
15 true in industrial systems. They studied many, many
16 industrial systems and they found these holes. They
17 found many situations in which it was suggested that
18 the numbers are far greater. But, interestingly, the
19 Heimreich ratio of one major injury for every 29 or
20 30 minor injuries and 300 no-injury accidents. It
21 has been suggested as a way of seeing, are you
22 getting reported to you in the system the things you

1 need to know. That was in the Department of Health,
2 U.K. Organization.

3 In our current data, actually mid-'05, we
4 had 43 events of harm, 2,698 reached the patient, no
5 harm, almost 15,000 near-misses.

6 (Slide.)

7 DR. KAPLAN: If we divide by that 43, we
8 get one harm event, 63 no harm events, and 339 near-
9 misses. I think that is interestingly parallel to
10 what would be expected from that triangle.

11 (Slide.)

12 DR. KAPLAN: We take a closer look at the
13 near-misses. We find it's almost a 10:1 planned to
14 unplanned. That is rather interesting, but not
15 surprising. When you know what your weaknesses are,
16 you put your barriers in, and that's how you get your
17 plan barrier attack on the event and near-miss. But
18 the 34 unplanned are very important.

19 How do you recover from there, because
20 that's not a planned recovery.

21 (Slide.)

22 DR. KAPLAN: If we take a look at the

1 distribution of events, we see pre-and post-issue
2 that final barrier, that issue barrier, is the
3 important one. There's 100 percent of the events and
4 16 percent that actually reach the patient. Eighty-
5 four percent are near-misses. And 87 percent of
6 those are not issued.

7 For fully half of the near-misses of our
8 collection are phlebotomy. Other than monitoring how
9 we are doing, I don't think there is a whole lot of
10 new knowledge to be gained in that group. We have
11 some ideas on what we should do about that.

12 Now, what is being required to be reported
13 is that 13 percent, at least of the near-misses, are
14 ones that are issued that get past that final
15 barrier. Obviously, those are probably the ones that
16 would be stressed in central systems. And certainly
17 the ones that harm. That very small total.

18 (Slide.)

19 DR. KAPLAN: When you look at systems,
20 whether it is at the local level or the central
21 level, it is very useful to say, have we seen this
22 before, how often and how similar.

1 We have developed a really similar method
2 -- we call it HAWK. Actually, I was told to reflect
3 my ideas of hyper-augmented weight -- people who work
4 with us are known as the Jayhawks.

5 This is a system. It's the first step.
6 You call the Help Desk Op to say what your problem
7 is. Then look up similar things in the database.

8 That's that similarity match. So we are
9 using that. We look at all the attributes, and match
10 the event with attributes. We rate the strength of
11 the match from 1-100, and we weight different matches
12 because different attributes have much more or less
13 importance.

14 But something occurs. The exact day is
15 very important, but not so important than the kinds
16 of things we are looking for in similar cases.

17 But I think some form, to able to say, we
18 have seen this before, how similar, is rather
19 important. How much further investigation will do
20 would be based on that. It also allows people to
21 say, I put that into my database, but I am not going
22 to fool with the system. I am going to monitor it

1 and see how often this is a problem.

2 I think that is a very important thing,
3 putting something into the database and monitoring it
4 is an action. It's good. And the regulatory
5 component will accept that fact that I am not making
6 a change in my system.

7 (Slide.)

8 DR. KAPLAN: This is from Bill Corcoran,
9 our consultant in the nuclear safety field, and his
10 Firebird Forum. He talks about doing cause analysis.
11 The first time you do it, a root cause analysis, you
12 get information. That probably provides the most
13 learning.

14 The second time, you extend that learning,
15 but if you do it again and again, it's diminishing
16 returns.

17 (Slide.)

18 DR. KAPLAN: This was just a quick shot of
19 how we do root cause analysis. It's a causal tree.
20 It goes back in time, and cause -- we carry it down
21 to the root causes. The important thing here is we
22 do look at the recovery side of this near-miss. Not

1 only the failure side.

2 The other issue here is this isn't an
3 iterative process. One of the problems with filling
4 out a form is it doesn't encourage that kind of
5 sense-making process. You are just trying to fill
6 out a forms. Forms have a virtue of standardization,
7 but they have some weaknesses.

8 (Slide.)

9 DR. KAPLAN: I would think we would all
10 benefit from taking a look at events. Again, this is
11 from Corcoran. And safety isn't so much what caused
12 this, but really about the consequences to the
13 patient. What were the factors that affected the
14 consequences? What were the vulnerability factors?
15 What are the latent errors or failures going into the
16 system?

17 Like, for example, staffing. The
18 triggering factor. What was the act? A guy didn't
19 double-check something. Didn't follow a protocol.
20 The protocol may not have been follow-able.

21 But that's the vulnerability factor, how
22 latent factors and triggering factors combine. Then

1 you want to know, what made it worse than it had to
2 be? What were the exacerbating factors? What were
3 the mitigating factors?

4 If we begin to get these pieces into the
5 mix, I think we have another level of understanding.
6 We have at least moved toward lessons learned.

7 (Slide.)

8 DR. KAPLAN: When you say all this, how do
9 you decide? Which procedures are you going to spend
10 time on? At the local level and the central level, I
11 think the two issues -- this is just a hazard matrix.
12 The probability of it recurring again. And the
13 consequences of it recurs.

14 That is the most extreme consequence. But
15 what do you think the most critical consequence is?
16 The probability, which is High-High, number 1, is the
17 one you want to spend your time on.

18 Number 3 is a little more difficult. That
19 the low probability, high impact. Those are the ones
20 that take some thought as to what kind of resources
21 do we expend. That's just another example of the
22 matrix.

1 (Slide.)

2 DR. KAPLAN: That's one of the ratings.
3 We calculate a number on the back of the envelope.
4 Is the risk extremely high? Medium? Very low? And
5 we convert it to a number. And we take the legal
6 precedent -- 6.5 or more, it's more likely than not.
7 That's our cut-off.

8 (Slide.)

9 DR. KAPLAN: The use of near-miss reports,
10 you decide what you are going to look at. If we do
11 this, it's a portal to view the potential system
12 dangers. It's a safe way to learn lessons. And very
13 importantly.

14 A lot of what we do, we do routinely.
15 Often. People are on automatic pilot. This provides
16 exemplar cases in support of being mindful.

17 (Slide.)

18 DR. KAPLAN: This is something that's
19 interesting. It was a CAP phone survey in '99. They
20 queried CEOs of hospitals and heads of nursing
21 departments, and asked, what was their awareness
22 level of medication errors and specimen collection

1 errors. You can see there is quite a drop-off from
2 awareness of medication errors to specimen collection
3 errors.

4 That's not only important in the
5 individual hospital, that might be fed back into the
6 system. But I think this is another place where
7 central information ought to be put back into the
8 hospital.

9 (Slide.)

10 DR. KAPLAN: Nothing recedes like success.
11 I was worried about when we look at the peak of the
12 pyramid, with the harness -- and we don't worry about
13 the bottom.

14 The reality is, I think people carry this
15 model in their heads. I just did some quick numbers.
16 I wouldn't argue about their accuracy, but I think
17 most hospitals, even with a pretty accurate
18 transfusion service, don't see the worst problems.

19 I know we have a good system for sharing
20 and reminding people about the danger that is being
21 faced on a daily basis. I don't mean blood, I mean
22 the rest of the system.

1 (Slide.)

2 DR. KAPLAN: Finally, we don't have a good
3 system for feedback at all. When there is a mistyped
4 heart transplant, it was the media that had everybody
5 in the transplant program sitting down and going over
6 the flaws they knew in their system.

7 We had a recent event in a blood center, a
8 contaminated unit. Platelets. I hear about it, and
9 as I am looking at it, on one of the web sites that
10 captures this information, but I think we really need
11 some of the analogies, that NTSB and aviation, which
12 is investigating and sharing information, not the
13 police, and NTSB. I talk to Jerry about this and he
14 said maybe the National Transfusion Safety Board.

15 But I think the idea of our being much
16 better than just NBC, and CNN and the times being a
17 source of how we get information is critical.

18 So, it gets to the feedback loop.

19 (Slide.)

20 DR. KAPLAN: I couldn't pass this up.
21 "Safety is not bankable." That's a quote from Weick
22 and Sutcliffe. Safety and reliability have to be

1 accomplished over and over. Safety and reliability
2 are dynamic, non-static events.

3 The issue is, any system we have has to be
4 sustained. That's one of the reasons why I think the
5 approach is sentinel rather than getting the whole
6 world, and maybe more important. And my final one,
7 weak signals do not require weak responses.

8 Thank you.

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1 DR. BRACEY: Thank you, Dr. Kaplan, for a
2 great presentation. Questions from the Committee?

3 (No response.)

4 DR. BRACEY: I think your message was
5 clear.

6 DR. KAPLAN: It has marvelous staying
7 power.

8 DR. BRACEY: There's one question from Dr.
9 Epstein.

10 DR. EPSTEIN: A lot has been said about
11 the issue of finances and sustainability. You have
12 22 hospitals doing this. Have they been able to show
13 a payoff? Can the lower costs by doing this?

14 DR. KAPLAN: That's a good question. I
15 think we show payoffs in changes that occur. For
16 example, in one of the Canadian hospitals, they
17 studied and found that they had a lot of blood
18 collection errors, sample collection errors, that
19 were due to PRN hiring of nurses, short fill-ins.

20 They realized they had no education
21 program. They captured that later and they carried
22 out an educational program and found that the nurse

1 became more aware, but they still had a high rate.

2 Rather than looking at that as a failure,
3 what they were able to do, was take that data and
4 show that the educational program was necessary, but
5 not sufficient. It was sufficient data, however, for
6 the administration to go ahead with a bar code
7 system.

8 It gave support to making a financial
9 decision by using one of the functions, which is
10 monitoring change. We'd seen other kinds of uses of
11 the system in our own hands.

12 We decreased wastage on the floor with
13 this interaction with nurses. We haven't really
14 calculated the cost.

15 Wastage of blood was driver here for us,
16 but we didn't capture the costs. I think the mantra
17 we need to adopt to figure out how we can try to tie
18 these things to length of stay, any hospital
19 administrator who can show the impact on length of
20 stay with regard to his patient, what we've done, I
21 think, has really been focused properly on this.

22 Thank you.

1 DR. BRACEY: Thank you. In the interest
2 of time, I think I'd like to ask the Committee, if
3 the Committee feels okay with us beginning the
4 discussion and postponing the presentations until the
5 follow meeting; is that agreeable? All right.

6 The task at hand now, is to try to
7 assimilate all this information that we've reviewed
8 over the last two days, into a recommendation for the
9 Assistant Secretary and Secretary with regard to this
10 activity.

11 We briefly, informally discussed this,
12 but, at any rate, we will have the head of that
13 subgroup on biovigilance, Dr. Kuehnert, once we get
14 the computer up, present the draft.

15 (Pause.)

16 DR. BRACEY: Do you want to go ahead,
17 Matt?

18 DR. KUEHNERT: Over lunch, we talked a
19 little bit about a recommendation. We have basically
20 had a number of different suggestions.

21 This was one of the composite suggestions,
22 so I can -- maybe the best thing to do is just to

1 read this first page, and then stop.

2 DR. BRACEY: Do that.

3 DR. KUEHNERT: Whereas, promoting the
4 safety of the U.S. blood supply is a principal
5 activity of the Advisory Committee on Blood Safety
6 and Availability, and inclusion of efforts to improve
7 organ and other tissue safety and availability, also
8 needs to be considered, we recommend that the
9 Assistant Secretary promote the participation or
10 leadership by the Department in developing a national
11 program of, quote, "biovigilance," unquote.

12 Biovigilance is defined as a comprehensive
13 national program for detection, gathering, and
14 analysis of data regarding untoward and unexpected
15 events of donation and blood transfusion and
16 transplantation of cells, tissues, and organs.
17 That's taken from the AABB manual.

18 Formation of a PHS Biovigilance Task
19 Force, including the Assistant Secretary and
20 representatives of PHS agencies would be an initial
21 important first step of identification of the vision,
22 goals, and processes needed to advance these

1 objectives.

2 This Task Force is needed to participate
3 with private-sector efforts, including the AABB
4 Interorganizational Task Force on Biovigilance, to
5 advance public health in this effort.

6 Then I think we should stop there.

7 DR. BRACEY: Then we had another version.
8 Jerry, can you help?

9 (Pause.)

10 DR. BRACEY: The other version states:
11 Whereas, the Committee recommends that the Secretary
12 establish an interagency task group -- whereas,
13 again, would follow from what we've read before --
14 the present Committee recommends that the Secretary
15 establish and interagency task group to develop an
16 analysis and operational proposal for enhancing
17 safety monitoring and response for biological
18 products, including blood products, cell and tissue
19 products, and solid organs, in partnership with
20 initiatives in the private sector.

21 The task group should address the
22 following issues: A gap analysis regarding the

1 effectiveness of the current system, the need for
2 mandatory versus non-mandatory and regulatory versus
3 non-regulatory reporting, the scope of reporting with
4 regard to product problems, medical errors, and
5 clinical adverse events, including recognized and
6 novel events, database centralization versus data
7 sharing, database governance, ownership, and
8 accessibility, format and standards for data
9 reporting, including confidentiality, funding
10 mechanisms for a sustainable system, and design and
11 feasibility of suitable pilot programs to determine
12 the characteristics of a value-added system.

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1 DR. BRACEY: There are distinct elements
2 from both proposals.

3 DR. KUEHNERT: Does this one follow the
4 first one?

5 DR. BRACEY: I was thinking we would have
6 the first one that goes the definition. We talked
7 about the need to do it. Then this really addresses
8 the issue of the important areas that need to be
9 explored. But I'll leave that up to the Committee.

10 MS. LIPTON: I was going to say I think
11 they can't actually be worked together. My concern
12 is I would hate to see the task force get together
13 and do this all by itself.

14 I want to reinforce that this should be in
15 partnership with the initiative that's already going
16 on. What I might change about the second one is
17 where it says "Task group should address the
18 following issues."

19 Those are all the right issues, but I
20 think it should be not just the task group itself.

21 DR. BRACEY: Dr. Epstein?

22 DR. EPSTEIN: Actually, the previous

1 paragraph states this should be established in
2 partnership with initiatives in the private sector.

3 DR. BRACEY: That's true.

4 DR. KUEHNERT: I think the language needs
5 to be changed just a little bit. This is more what
6 should be done in the big effort, with a capital "E,"
7 but not necessarily with PHS.

8 DR. BRACEY: Dr. Duffell?

9 DR. DUFFELL: I think the remark earlier
10 about the buy-in -- I think the bullets add some
11 specificity to it, and I think Jay's remark is true.

12 DR. BRACEY: Let's do this. Let's combine
13 the two. Then we'll revisit after we've cut and
14 copied. Meanwhile, Mr. Matyas.

15 MR. MATYAS: A technical question about
16 the task force and the terminology. What kind of
17 approval? What's needed in order to create the task
18 force, and what's the charge of the task force? I
19 just wasn't sure if there's hidden meaning behind
20 "task force."

21 DR. BRACEY: I see it as a group of
22 interested parties. The supporting organizations

1 indicating that they will allot the time commitment
2 of those individuals to the effort. Anyone else?

3 DR. DUFFELL: Jerry might be the one. It
4 is kind of a legal question. We had a discussion
5 last time when we broke up into working groups on how
6 that worked.

7 MR. MATYAS: What is the authority of the
8 task force? Is it merely to come up with more
9 recommendations, or does it have the ability to
10 implement them?

11 DR. BRACEY: I would see the task force as
12 being able to put up a set of recommendations,
13 because there is at this point really no budgetary
14 commitment.

15 Dr. Holmberg, what would you think? We
16 were looking in terms of definition of the task force
17 and the authority the task force would have. Would
18 it have an authority that would go beyond
19 recommendations, into let's say implementation?

20 DR. HOLMBERG: The task force, as we are
21 defining it, would be the AABB task force.

22 VOICES: No.

1 DR. HOLMBERG: I think the word Jay used
2 was a working task force group.

3 DR. EPSTEIN: I called it a "task group."

4 DR. HOLMBERG: A task group. It's just
5 that, a task group. They have no authority, other
6 than to put together a document for approval by the
7 Secretary.

8 MR. MATYAS: AABB, because it isn't
9 necessarily government, is able to go. It's able to
10 do. The question is -- I guess I ask Karen -- does
11 this help or hinder, because a task group that
12 doesn't have any authority might stall what seems to
13 be very good productive efforts.

14 MS. LIPTON: I think that's why my biggest
15 fear is that an interagency group decides to go off
16 and talk to itself and do things. What might be
17 worse still, I'd really like to see the task group
18 participate with the private sector initiative, so
19 we'd all know what each other is saying.

20 DR. BRACEY: The way I see it, there
21 really is no impediment for the private sector
22 pursuing this activity. The critical question, I

1 think, is again, what is the role of the government
2 and its resources and its existing networks, in
3 participating in this activity? It could be a
4 facilitator.

5 MR. MATYAS: My question is, isn't it then
6 better to maybe have AABB have its task force with
7 members of the government participating, as opposed
8 to having this task force as part of the government,
9 with AABB participating?

10 DR. BRACEY: I understand that point. But
11 I think that it's important for the government to
12 work with itself, to evaluate its current structure
13 and systems, and perform an analysis to see, to
14 really understand all the parts that we were
15 discussing.

16 But Dr. Epstein, would you like to speak
17 to that as well?

18 DR. EPSTEIN: First of all, as to what is
19 a task group, it's a group that's given a task. What
20 is the task? I think task, as I've tried to frame it
21 anyway, comes out as a report, that the group
22 generates an analysis and writes it up, and then

1 makes a proposal.

2 Now it's true that group doesn't have
3 effective power. On the other hand, when task groups
4 are created within the government, the point is that
5 they've been empowered to advise the ultimate
6 decisionmakers. The ultimate decisionmakers listen
7 to these reports of the task groups.

8 As I understood our earlier conversation,
9 this is an attempt to be responsive, to encourage the
10 Secretary to take ownership of the issue, and
11 organize engagement.

12 Now that engagement should be a
13 partnership with the initiatives of the private
14 sector, no question about that. But we have to have
15 authority to come to the table and say "Here's what
16 the government thinks the government should own.
17 Here's what the government thinks the government
18 should do."

19 That's sort of lacking right now. That's
20 because we don't have -- that we have a problem right
21 now. So what we're calling for in the proposal is to
22 call for the Secretary to establish that activity.

1 MR. BIRKOFER: I support Mr. Matyas'
2 comments. I don't have an insider's perspective on
3 how the government works, but experts in the FDA and
4 CDC and the other entities, they should be able to
5 communicate quickly amongst themselves and join in
6 and participate with the already-established well-
7 structured AABB, an organizational task force.

8 I think the presentation was crystal
9 clear. I would hate to see any bureaucratic
10 machinations impede the work that's already done.
11 Let's move on with this issue.

12 DR. BRACEY: Dr. Holmgren.

13 DR. HOLMGREN: I think we in the
14 government have already worked on that direction
15 already, in many, many events. It is easier for us
16 to come to the table if we are invited to the table
17 to discuss, instead of us bringing the private sector
18 to the table.

19 In the past, we have done that with the
20 AABB Task Force on Domestic Disasters. We've also
21 done it on the pandemic. There are task forces that
22 just keep popping up.

1 What I envision, and I don't know whether
2 we have to be very prescriptive in our
3 recommendation, but the way I would tend to interpret
4 this and operate would be that it would be
5 concurrent. We would be talking within the
6 government and finding our position.

7 At the same time, we would be joining. So
8 I guess I had pretty much the same thought, of PHS in
9 the AABB task force, whereas at the same time, there
10 could also be within the directives of the Department
11 to really look at all of these elements and assess
12 the gaps. I don't see those as mutually exclusive.

13 DR. KUEHNERT: That's what we've been
14 talking about.

15 DR. BRACEY: Do you want to go back
16 through it?

17 DR. KUEHNERT: Maybe we should just talk
18 about this particular paragraph, and make sure that
19 works for people. The PHS task group should address
20 the following issues concurrently with the AABB
21 Interorganizational Task Force on Biovigilance, and
22 other private sector efforts.

1 MR. BIRKOFER: No. What my comment would
2 be that PHS should appoint representatives to the
3 AABB task force, and the PHS-appointed
4 representatives. I think it's explicit that they
5 meet beforehand and they make sure what the higher-
6 ups in the government want.

7 The government's task group will drag its
8 feet and not do it as quickly as the AABB. Non-
9 governmental organizational task force.

10 DR. KUEHNERT: Let's say AABB talks in all
11 their meetings and say "We don't want to do gap
12 analysis, so we're not going to do it." So they got
13 outvoted.

14 MR. BIRKOFER: But they have to be
15 appointed by the Secretary. They need to talk
16 amongst themselves before they show up at the
17 meeting.

18 DR. KUEHNERT: No. I'm saying AABB
19 basically is then driving the decisions on what's
20 done.

21 MR. BIRKOFER: No. AABB is not. It's all
22 the participants and their task forces. The AABB is

1 not the driver. It's all of the groups that are
2 represented on their task force. The AABB is not
3 driving the agenda. It's the groups that are
4 participating.

5 DR. BRACEY: I guess the way that I saw it
6 was that the PHS would appoint individuals to
7 participate in the AABB task force, and at the same
8 time or concurrently, the PHS task group would be
9 meeting to assess its current structure.

10 So again, There's no delay, because you
11 have people appointed, people participating. They're
12 interacting. But they're also evaluating their own
13 system, which could only be additive.

14 DR. KUEHNERT: I guess the issue of this
15 committee is they can't really direct AABB to do
16 things, can they? We can't say the AABB
17 organizational task force needs to do the following.
18 This Committee can't direct AABB. I'm not sure how
19 you do that.

20 DR. BRACEY: But again, it's not this
21 committee but the government would supply expertise
22 to participate in the activity.

1 DR. KUEHNERT: So the government will have
2 liaison representatives on the task force, but they
3 can't direct the AABB task force to do anything.
4 They can be safely recommended to do this or that. I
5 mean I'm not suggesting that AABB is going to be
6 reticent or stubborn.

7 It's just that there are some things
8 that's going to put them in an awkward position as
9 far as what they're supposed to do, and there are
10 some things it isn't fully their mission to do. It's
11 the government's mission to do it. That's where it
12 gets awkward. I'm not sure what to do about that.

13 DR. BRACEY: Comments from the floor?

14 VOICE: Just a little bit of clarification
15 on how the AABB task force works. Using the Disaster
16 Task Force as an example, the member organizations
17 from the private sector are formally called
18 "members," such as AEBC, Red Cross, ABC, American
19 Hospital Association, etcetera.

20 They're more our liaisons from the
21 governmental agencies, who are not members in the
22 same regard. So that for instance, if you wanted to

1 come out with a statement, we have determined that we
2 didn't want to hindered.

3 If we needed to get out a statement
4 quickly and couldn't get it adopted immediately by
5 the department, by HHS, which I understand may take a
6 little longer time, then we can issue the statement
7 as a statement for the private sector organizations
8 which are members. Then we just liaisons with the
9 governmental agencies.

10 MS. LIPTON: That's with respect to the
11 Disaster Task Force. But generally, in the
12 organizational task force in our nomenclature, an
13 interorganizational task force has a representative
14 from other organizations, and they name those
15 representatives.

16 So it's really a task force organization.
17 What we do in the Disaster Task Force was very
18 different. We did that specifically because we had
19 to worry about the actions that were taken.

20 MR. BIRKOFER: How are decisions made on
21 the interorganizational task force? Is it AABB or is
22 it the vote of the members of the task force? Is it

1 a majority?

2 MS. LIPTON: I don't think we ever had to
3 come to a vote like that. What generally happens is
4 each organization goes back and they sign off. When
5 we have an organizational task force, if the Red
6 Cross were a member and the Red Cross, their
7 leadership would be part of it. But if we can't
8 agree, then that gets noted.

9 DR. BRACEY: Dr. Holmberg.

10 DR. HOLMBERG: Let me just give an example
11 here. I think what I said earlier, what I was saying
12 was that the government comes to the table on these
13 Interorganizational task forces as a liaison.

14 Specifically, we had a situation during
15 Katrina where the task force went in one direction
16 and the government could not take that position.

17 So we had to back off, and it was very
18 important that this was not the government's point of
19 view on this. The government was extremely split on
20 this issue.

21 I think we have to be extremely careful
22 that when the government comes to the table on these

1 interorganizational task forces, they're coming as a
2 liaison. It would clarify this if we just said the
3 PHS task group should, and then end it right there,
4 and list the things it should do.

5 Then one of the elements should be a
6 liaison to the AABB task force.

7 DR. BRACEY: I guess one of the guiding
8 principles that we're thinking about is issues such
9 as ownership of the data, how broadly the data would
10 be integrated. There are pieces that currently in
11 essence are owned by the government, mandatory
12 reporting.

13 So it's a very, you know. The government
14 will say "Well, you run the system because currently"
15 -- in other words, private industry would run the
16 system because currently government has a system for
17 reporting, etcetera.

18 I think we have to be really cautious
19 about that. We have to go to the point of looking at
20 it from the liaison perspective. We really are
21 saying at this point we haven't really changed the
22 ownership of the data or in essence the data still

1 resides within the government. Jay? Comment on
2 that? Dr. Epstein?

3 DR. EPSTEIN: I think that's one of the
4 unsolved issues, is where data should reside. Who
5 manages the database, what database elements are and
6 so forth. It's all still unresolved, so it's not
7 clear where the government should hold this.

8 I've certainly heard some arguments that
9 there are elements of it that some people think the
10 government shouldn't own, that it should be
11 voluntary, non-regulatory, non-punitive reporting.

12 I think my concept here is that the
13 government needs to figure out what the government
14 needs to do. What we're trying to do as a committee
15 is encourage the Secretary to be proactive on the
16 issue.

17 A couple of us have been playing with some
18 language that may need the Secretary to coordinate
19 federal actions and programs to support and
20 facilitate biovigilance, in partnership with
21 initiatives in the private sector.

22 This idea of the task group would generate

1 a report for the government. As a subsidiary action,
2 you have another element which is provide adequate
3 liaison to the AABB and to the organizational task
4 group.

5 DR. BRACEY: Right. The thing I see is we
6 need to have action on the topic taken by those at
7 the top, and we need to figure out exactly how the
8 operations should take place. Let's make that
9 change.

10 MR. MATYAS: If I may, just reading it, it
11 struck me that what we were recommending was really a
12 task group as opposed to the Secretary taking action.
13 That action may result, but I think our
14 recommendation is merely that the Secretary create a
15 task force.

16 DR. BRACEY: Holmberg. Jay, where are you
17 saying this goes?

18 DR. EPSTEIN: It would be above the
19 current recommendation, right after the biovigilance.

20 DR. HOLMBERG: Right down here.

21 MR. MATYAS: I think it's in the
22 recommendation.

1 DR. BRACEY: You're thinking higher up.

2 MS. LIPTON: I think it belongs in the
3 first paragraph with what you just developed. The
4 idea is for the coordination of federal actions and
5 programs. That's usually what we're tasking the
6 Secretary to do.

7 DR. BRACEY: We would strike the portion
8 after promote, and then insert "coordinate" in that
9 place? Strike "promote." Whereas promoting the
10 safety of the U.S. blood supply is a principle
11 activity of the Advisory Committee on Blood Safety
12 and Availability, and inclusion of efforts to improve
13 organ and other tissue safety and availability also
14 need to be considered, we recommend that the
15 Assistant Secretary coordinate federal actions and
16 programs to support and facilitate biovigilance in
17 partnership with initiatives in the private sector.
18 Comments?

19 DR. DUFFELL: I'll make the comment that I
20 think it works.

21 (Laughter.)

22 DR. DUFFELL: Somebody say something,

1 right?

2 DR. BRACEY: Can we move on? Let's move
3 on then. There's a second piece, a paragraph that
4 attempts to define what we're speaking of. Dr.
5 Epstein.

6 DR. EPSTEIN: I'm concerned that that
7 definition leaves out -- it talks about detection
8 gathering and analysis of data, but doesn't talk
9 about communication, or that the aim of it is to
10 reduce the errors, something like that.

11 MS. LIPTON: Barbara Whitaker, didn't you
12 have four pieces. We should include information on
13 communication?

14 DR. WHITAKER: Early warning, safety
15 issues, exchange of valid information, application of
16 methods, practice improvements, promotion, education.

17 DR. BRACEY: Okay. So we would start
18 another sentence here, with the objective of
19 providing an early warning system of safety issues,
20 exchange of valid information, application of
21 evidence for practice improvement, and promotion of
22 educational activities.

1 DR. WHITAKER: Start the sentence with
2 "The system should be outcome-oriented with the
3 objective" or "outcome-driven."

4 (Pause.)

5 MS. LIPTON: I just wanted to comment.
6 That really is part of the legislative mandate, and
7 that's the ownership issue and the direction things
8 are going.

9 One of the things you might think about is
10 including that type of concept in the definition, if
11 we're going in a different direction, like a
12 legislative mandate.

13 The nice thing about PSO legislation, it
14 really does have bipartisan support. So that it has
15 a chance of long-term survival.

16 DR. KUEHNERT: So language on patient
17 safety?

18 DR. BRACEY: Yes.

19 MS. LIPTON: Create a patient safety
20 organization in keeping with the purpose behind the
21 organizational legislation. The legislation creating
22 patient safety organizations.

1 DR. EPSTEIN: Why don't you just add the
2 word "patient safety," defined as a patient's safety.
3 That needs to be headlined here. The big picture
4 people have said that the big picture is to improve
5 patient safety.

6 If somebody was writing a newspaper story,
7 what should be the headline? What do we want the
8 headline to be? The headline is to improve patient
9 safety. I would favor having that way up somewhere
10 at the top.

11 DR. BRACEY: Patient safety program, yes.
12 Scratch national.

13 DR. EPSTEIN: I'd like to put "national"
14 back in, maybe a national patient safety program.

15 DR. BRACEY: Because of the federal
16 element?

17 DR. EPSTEIN: Whether it's federally run
18 or not, you really do want a national program.

19 DR. BRACEY: So national patient safety?

20 DR. EPSTEIN: Comprehensive and integrated
21 national patient safety program.

22 DR. BRACEY: Can we move national in front

1 of patient safety program?

2 DR. EPSTEIN: You'd have to say that is
3 comprehensive.

4 DR. BRACEY: Any other additions?

5 DR. HOLMBERG: Is it just patient, or has
6 the Red Cross pointed out the donor also? So it
7 would be a national donor and patient.

8 DR. BRACEY: In other words, we want to
9 emphasize patient safety legislation, but we don't
10 want to de-emphasize the importance of the donors.

11 MR. KAPLAN: If you don't have donors, you
12 have no patient safety. They belong together.

13 DR. BRACEY: What does the committee think
14 in terms of national patient safety, without
15 reference to donors? Maybe that's something we could
16 get to in the details. Comments?

17 MR. BIRKOFER: It does say an event of
18 donation.

19 DR. BRACEY: Let's go through it again.
20 Biovigilance is defined as a national patient safety
21 program that is comprehensive and integrated for
22 detection gathering and analysis of data regarding

1 untoward and unexpected events of donation, and blood
2 transfusion and transplantation of cells, tissues and
3 organs. It seems a little choppy.

4 MR. MATYAS: Comprehensive really should
5 go before national. That way you have a program for
6 detection gathering.

7 MS. LIPTON: I agree.

8 DR. BRACEY: So we'll move it.

9 MS. LIPTON: To detect, gather and analyze
10 data.

11 DR. BRACEY: So we want to use both
12 untoward and unexpected events? Actually, there are
13 two separate. One's the actual event.

14 MS. LIPTON: What it leads to is the one
15 that actually causes harm.

16 DR. EPSTEIN: I don't see it that way. I
17 think what we're talking about is for the known
18 events versus the rare and emerging events. There
19 are lots of untoward events that we know about. I
20 mean after all, hepereactions are expected, right?

21 MS. LIPTON: Should you say "and analyze"?

22 DR. EPSTEIN: What bothers me here about

1 donation and blood transfusion and transplantation,
2 if they're also organ and tissue donors, shouldn't it
3 be donation processing and clinical use of blood and
4 blood products? So add "and tissue products and
5 solid organs." We sort of stuck donations in an odd
6 place.

7 DR. BRACEY: A good point. It will be
8 donation, processing and clinical use of --

9 DR. EPSTEIN: Blood and blood products.
10 How far do you want to go? We left out "other
11 biologics in that," and transplants. It's only human
12 products. On the second line, there should be a
13 comma there.

14 DR. BRACEY: Right.

15 MS. LIPTON: It should be to detect,
16 gather, analyze and report data.

17 DR. HOLMBERG: Can I read something here
18 please? We have established a comprehensive system
19 to collect, analyze and report on the outcomes of
20 collection and transfusion, and/or transplantation of
21 blood components and derivative cell tissues and
22 organs, to provide an early warning system for safety

1 events and continuously improve donor safety.

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1 DR. BRACEY: While Dr. Holmberg is editing
2 that, do you want to go down to the next paragraph?
3 Oh, he won't be, actually, able to change it, so
4 let's wait.

5 (Pause.)

6 MS. LIPTON: It should be collect,
7 analyze, and report.

8 DR. HOLMBERG: Should we just stop at
9 organs? Excuse me, should we stop at organs, or
10 should we continue on there with a new sentence, or
11 should we add all that existing sentence.

12 DR. EPSTEIN: Put a period after organs.

13 DR. BRACEY: So, the following sentence is
14 something that is added. I guess we put it in
15 discussion, although it still, again, derives from
16 certain bullets from the presentation on the AABB
17 item.

18 I think it adds value. What does the
19 Committee think?

20 MR. MATYAS: Okay, so, what system? Do we
21 mean the program? that what we're referring to?

22 DR. BRACEY: Yes, so it would be the

1 program.

2 MR. MATYAS: Also, Dr. Holmberg, in the
3 first paragraph, is it not that we recommend that the
4 Secretary coordinate?

5 DR. BRACEY: Right.

6 DR. EPSTEIN: I think that in the second
7 paragraph, under Exchange of Valid Information. I'd
8 like to strike the word, "valid."

9 DR. BRACEY: Good point.

10 (Laughter.)

11 DR. BRACEY: The second paragraph, does it
12 float?

13 DR. EPSTEIN: Application of evidence
14 bothers me. Examination of evidence? What do mean
15 by "application of evidence"? Practitioners apply
16 it. What does the program do? The program doesn't
17 apply it.

18 DR. BRACEY: You really provide it.

19 DR. HOLMBERG: Promote.

20 MS. LIPTON: Promoting the application.

21 DR. BRACEY: So you have to -- the
22 application of evidence for practice improvement,

1 couldn't we just strike that, strike after "practice
2 improvement."

3 You don't have the education piece, but
4 you assume that if you apply it, that there is an
5 educational activity associated with the application
6 of such.

7 DR. HOLMBERG: Practice improvement for
8 educational activities?

9 DR. BRACEY: Just strike "after practice
10 improvement." That gets the key point.

11 MR. MATYAS: For grammar purposes, the
12 objectives of providing, exchanging and promoting --

13 DR. KUEHNERT: I couldn't constrain
14 myself. Making the assumption about educational
15 activities, is a big leap. It doesn't happen by
16 itself, and it isn't necessarily going to happen
17 here, and I don't think that saying so, will make it
18 happen, either.

19 But I don't think educational activities
20 necessarily follow the fact that we're going to give
21 people information. That has to be integrated into
22 either some teaching program, it has to be integrated

1 into practice change. I think people understand why.

2 If you make the assumption that that's
3 another guy's job, then the program gets too narrow.

4 MS. LIPTON: I think you're right; we
5 could just say promotion, education, and the
6 application of evidence for practice improvement.

7 DR. BRACEY: Actually, the application
8 will come after the education, yes. Okay, education
9 and the application, okay.

10 You'd have to scratch "and."

11 MS. LIPTON: No, because we are promoting
12 both.

13 DR. BRACEY: Okay, I'm sorry. All right.
14 Biovigilance is defined as a comprehensive and
15 integrated national patient safety program to
16 collect, analyze, and report on the outcomes of
17 collection and transfusion and/or transplantation of
18 blood components and derivatives, cells, tissues, and
19 organs.

20 The program should be outcome-drive, with
21 the objectives of providing early warning systems of
22 safety issues, exchanging of information, and

1 promoting education and the application of evidence
2 for practice improvement.

3 Comments? Is there a yea?

4 MS. LIPTON: Definitely.

5 DR. BRACEY: There's a yea. Let's move to
6 the third paragraph: Formation of a PHS Biovigilance
7 Task Group, including the Assistant Secretary and
8 representatives of PHS agencies, would be an
9 important initial first step for identification of
10 the vision, goals, and processes needed to advance
11 these objectives. The Task Group is needed to
12 participate with private-sector efforts, including
13 the AABB Interorganizational Task Force on
14 Biovigilance, to advance public health in this
15 effort.

16 Does that seem to work?

17 (No response.)

18 DR. BRACEY: Okay, let's look at the next
19 paragraph: The Committee recommends that the
20 Secretary establish a PHS Task Force to develop an
21 analysis and operational proposal for enhancing
22 safety monitoring and response for biological

1 products, including blood products, cell and tissue
2 products, and solid organs, in partnership with
3 initiatives in the private sector.

4 That can be deleted. Let's scratch that.

5 DR. EPSTEIN: After we scratch it, we need
6 to bring back the issue of developing analysis and
7 providing a proposal. I see those as outputs of the
8 Task Group.

9 MS. BIRKOFER: Can you add that to the
10 first sentence of the preceding paragraph?

11 DR. BRACEY: We want to add the output in
12 the first sentence, so, formation of a Biovigilance
13 Task Group, how about adding a second sentence?

14 DR. HOLMBERG: Where? Right here?

15 DR. BRACEY: Yes.

16 DR. HOLMBERG: The Task Group should
17 perform an analysis -- I lost you.

18 DR. BRACEY: Wait a minute. The Group
19 needs to do an analysis.

20 DR. HOLMBERG: Analysis is in the next
21 paragraph.

22 DR. EPSTEIN: We want them to produce an

1 analysis. I have in mind, a white paper. They
2 should produce an analysis and an operational
3 proposal, based on the consideration of the issues.

4 DR. BRACEY: Let's say that, then.

5 DR. EPSTEIN: It can be above, or could be
6 further down. The bottom now just says -- it
7 previously said they should produce an analysis and a
8 proposal.

9 DR. HOLMBERG: Let's put it right here.
10 Would that be okay? Say it again?

11 DR. BRACEY: The Task Group will produce
12 an analysis -- and what is it? Operational proposal?

13 DR. EPSTEIN: Yes. I like the term,
14 "operational proposal."

15 MS. LIPTON: I would just be careful about
16 saying operational proposal. That sounds like
17 they're putting together the system, and I think what
18 we would like to do -- if we're going to try to
19 design a system, we're going to try to do it
20 together.

21 It sounds like you said, you do the
22 analysis and the operations. So, if we can construct

1 our Task Force, you do it independently, but
2 altogether --

3 DR. EPSTEIN: I'd be okay with that. We
4 would say that the Task Group should produce an
5 analysis an operational proposal, concurrently. The
6 PHS Task Group --

7 DR. HOLMBERG: I'm sorry, I didn't hear
8 you.

9 DR. BRACEY: Should produce an analysis
10 and operational proposal.

11 DR. EPSTEIN: Concurrently with -- just
12 strike that. It's all there. Just strike that down
13 to "concurrently."

14 MS. LIPTON: Then you just need to address
15 efforts to include, and then you have the definitions
16 that follow.

17 DR. BRACEY: So, we have a gap analysis
18 regarding the effectiveness of the current system,
19 the need for mandatory versus non-mandatory and
20 regulatory versus non-regulatory reporting, the scope
21 of reporting with regard to product problems, medical
22 errors and clinical adverse events, including

1 recognized and novel events, database centralization
2 versus data sharing; database governance, ownership,
3 and accessibility; format and standards for data
4 reporting, including confidentiality; funding
5 mechanisms for a sustainable system, and design and
6 feasibility of suitable pilot programs to determine
7 the characteristics of a value-added system.

8 That's got the elements. That's a lot of
9 work.

10 MS. LIPTON: What I like about this, is
11 that there are certain pieces that can be done
12 together, and other pieces that can be done
13 independently, but everybody coordinates.

14 DR. BRACEY: So we would strike, then, the
15 remainder, all that follows, because it really
16 doesn't add anything.

17 DR. BOWMAN: Can I ask a question of some
18 of the long-term members of the Committee? Have
19 they, in the past, ever recommended the specific task
20 group that the Secretary appoint, or have they just
21 recommended certain objectives, and let the Secretary
22 determine the best way to achieve those?

1 DR. BRACEY: Good question. I do not know
2 that answer.

3 MS. LIPTON: I don't remember, but I'm
4 sure Dr. Holmberg could go back and see.

5 DR. BRACEY: Is that a problem?

6 MS. LIPTON: I think the important thing,
7 is that it should have interagency -- all the
8 agencies should be involved.

9 DR. BOWMAN: The only reason I bring this
10 up, is, there's already an excellent task group or
11 task force out there. They're interorganizational,
12 and the Committee is really trying to achieve those
13 objectives.

14 The Secretary may find a number of
15 different ways to actually achieve those, maybe even
16 a closer relationship with the existing AABB Task
17 Force, and, also, internally, within the Department,
18 and not necessarily to create a formal task force.

19 We just say that we recommend that the
20 Secretary consider or something.

21 DR. BRACEY: Actually, the bullets came
22 from government representatives, suggesting that they

1 really need to look at issue of ownership. I don't
2 know.

3 DR. BOWMAN: I don't disagree with the
4 bullets. It's the specific recommendation that the
5 Secretary appoint a task group, per se.

6 DR. HOLMBERG: Excuse me. The thing is
7 that this is a recommendation, and really,
8 internally, we'll decide how it gets done. I think
9 we just leave it at that.

10 DR. BRACEY: Dr. Epstein?

11 DR. EPSTEIN: First of all, I agree with
12 Jerry; we'll determine, in the end, whether that's
13 what will happen, but there is a value in integrating
14 a task group, which is that it will ensure
15 interagency coordination, which is not automatic.

16 DR. BRACEY: Okay, do you want to take it
17 from the top?

18 DR. HOLMBERG: Sure.

19 DR. BRACEY: The pieces that were deleted,
20 which you hadn't seen, was a draft of the same
21 elements. They were the same; they were
22 duplications.

1 DR. HOLMBERG: Do you want me to read it?

2 DR. BRACEY: How about the Executive
3 Secretary reading it?

4 (Laughter.)

5 DR. HOLMBERG: Whereas, promoting the
6 safety of the U.S. blood supply is a principal
7 activity of the Advisory Committee on Blood Safety
8 and Availability, and inclusion of efforts to improve
9 organ and other tissue safety and availability also
10 need to be considered, we recommend that the
11 Secretary coordinate federal actions and programs to
12 support and facilitate biovigilance in partnership
13 with initiatives in the private sector.

14 Biovigilance is defined as a comprehensive
15 and integrated national safety program to collect,
16 analyze, and report on the outcomes of collection and
17 transfusion and/or transplantation of blood
18 components and derivatives, cells, tissues, and
19 organs.

20 The program should be outcome-driven, with
21 the objectives of providing early warning systems of
22 safety issues, exchanging of information, and

1 promoting education and the application of evidence
2 for practice improvement.

3 Formation of a PHS Biovigilance Task
4 Group, including the Assistant Secretary and
5 representatives of PHS agencies, would be an
6 important initial first step for identification of
7 the vision, goals, and processes needed to advance
8 these objectives.

9 This Task Group is needed to participate
10 with private-sector efforts, including the AABB
11 Interorganizational Task Force on Biovigilance, to
12 advance public health in this effort.

13 The PHS Task Group should produce an
14 analysis and operational proposal, concurrently with
15 the AABB Interorganizational Task Force on
16 Biovigilance and other private-sector efforts, to
17 include a gap analysis regarding the effectiveness of
18 the current system, the need for mandatory versus
19 non-mandatory and regulatory versus non-regulatory
20 reporting, the scope of reporting with regard to
21 product problems, medical errors, and clinical
22 adverse events, including recognized and novel

1 events; database centralization versus data sharing,
2 database governance, ownership, and accessibility,
3 format and standards for data reporting, including
4 confidentiality; funding mechanisms for a sustainable
5 system, and design and feasibility of suitable pilot
6 programs to determine the characteristics of a value-
7 added system.

8 DR. BRACEY: Dr. Epstein?

9 DR. EPSTEIN: Could I make a couple small
10 suggestions? Back up where we talk about exchange of
11 information, that ought be exchange of safety
12 information.

13 DR. BRACEY: Where is that?

14 DR. EPSTEIN: Higher up. The safety
15 issues -- it's exchanging of safety information.
16 Then, do we really want to say that the Assistant
17 Secretary, personally, should be a member of the Task
18 Group?

19 DR. BRACEY: I thought -- I mean, it's a
20 noble concept.

21 DR. EPSTEIN: A noble idea, but a little
22 bit awkward.

1 DR. BRACEY: That's a good point.

2 DR. KUEHNERT: To reflect some
3 representative from his office, and because we say
4 representatives of PHS agencies, does that
5 automatically mean that the Secretary's Office is
6 included?

7 DR. EPSTEIN: I say the formation of an
8 HHS and PHS interagency Biovigilance Task Group. Who
9 else is on there? HHS and PHS Task Group, then
10 strike the Assistant Secretary.

11 The third thing: I would say this Task
12 Group, instead of, is needed, say, this Task Group
13 should participate.

14 DR. BRACEY: Wait a minute.

15 (Pause.)

16 MS. LIPTON: Do you really want to say an
17 initial first step?

18 DR. HOLMBERG: No.

19 (Pause.)

20 DR. EPSTEIN: I'm not sure it's a first
21 step, anyway. I think we've been engaged -- would be
22 a useful step.

1 DR. HOLMBERG: How about just an important
2 step?

3 DR. BRACEY: That's good.

4 MR. MATYAS: One of the items that I was
5 thinking through, that was presented over the last
6 two days, is international efforts in monitoring.
7 There seems to be quite a bit done overseas, and
8 while it needs to be incorporated, I think, in some
9 way.

10 DR. BRACEY: That's a good point. Really,
11 integration with international efforts in
12 standardizing definitions.

13 MR. MATYAS: Right.

14 MS. LIPTON: What I think came out of our
15 group, initially, is, be careful that our standards
16 reflect our transfusion practices. I don't know that
17 I would adopt all the definitions.

18 Maybe that comes out of the gap analysis.
19 Part of the gap analysis is really looking at other
20 systems to see what they have to be done.

21 DR. EPSTEIN: Go to the bulleted items,
22 Coordination or Cooperation with International --

1 MR. MATYAS: As Karen was saying, in the
2 gap analysis, it's two different issues: One, seeing
3 how we compare, and then another is to be involved
4 in.

5 DR. BRACEY: I think it's a separate
6 bullet.

7 DR. HOLMBERG: I don't know whether we
8 want to put that in here right now. I'm thinking,
9 let that fall out in the gap analysis.

10 MS. LIPTON: The only reason for looking
11 at this, is that we've seen everyone else do it. I
12 would just be very reluctant to adopt or not adopt
13 anybody else's. I think we have to figure out what
14 works for us.

15 There's a lot of information out there
16 that shows what works and doesn't work.

17 DR. EPSTEIN: How about potential for
18 coordination with international systems?

19 DR. BRACEY: I think it would be important
20 to go through that process. There's a large universe
21 of information.

22 DR. EPSTEIN: It says format and standards

1 for data reporting, including confidentiality. I
2 would make the next bullet, potential for
3 coordination with international safety reporting.

4 You should add non-U.S. safety reporting
5 systems, potential for coordination with non-U.S.
6 safety reporting systems.

7 (Pause.)

8 DR. BOWMAN: A small technical thing on
9 the first bullet: It says effectiveness of the
10 current system regarding gap analysis. I'm not sure
11 if we have a current system. We have more than one
12 current system.

13 DR. BRACEY: There is a system and we're
14 saying that it's fragmented, so that the notion is to
15 analyze. There's a question as to whether or not it
16 may be --

17 MS. LIPTON: Just accept that it really is
18 a system.

19 (Laughter.)

20 DR. HOLMBERG: How about current
21 activities?

22 DR. BRACEY: All right. Do you want to

1 say current safety reporting activities? Well, just
2 activities is fine. Okay.

3 MR. MATYAS: I'm going back to the working
4 group discussion with you and trying to ask those
5 people, have we captured all of the major concepts or
6 otherwise missed something? Have we done it
7 purposefully or not?

8 MS. LIPTON: I actually thought the
9 Biovigilance Working Group came up with some
10 recommendations that captured the category, but not
11 necessarily this.

12 DR. BRACEY: I see this as really
13 achieving the task, which is to charge the Secretary
14 with moving forward. We won't have a final product,
15 but momentum.

16 Are we ready to consider the final
17 version? One more read-through? You don't need it.

18 Don't need it? Okay, let's take a vote,
19 then. Could I have a motion?

20 MR. MATYAS: So moved.

21 MS. LIPTON: Second.

22 DR. BRACEY: All in favor of sending the

1 current recommendation to the Secretary?

2 (Show of hands.)

3 DR. HOLMBERG: Mr. Chairman, it's nine
4 for, and I don't see any opposed, however, our quorum
5 is ten.

6 DR. BRACEY: So the Chairman will vote.

7 DR. HOLMBERG: You were the ninth.

8 MR. WALSH: Mr. Chairman, I don't know
9 what the parliamentarian would say. I tracked Bill
10 Duffell down. He was the tenth, he was on the way
11 out on the Metro ramp. I asked if he'd come back for
12 the vote, and he said, no, just vote yes.

13 If we can get that by e-mail from him to
14 confirm that he said that, is that an acceptable
15 vote?

16 DR. HOLMBERG: I will take that up with
17 our FACA representative.

18 DR. BRACEY: I think we can get a proxy on
19 that, and if we do have a proxy, then we'll have a
20 quorum.

21 DR. HOLMBERG: If not, this still could be
22 addressed in a letter from you, and it could read, to

1 the Secretary, and it could be reintroduced again
2 very quickly at the next meeting.

3 Dr. Agwunobi can take action on it before
4 the recommendation comes in on it officially.
5 There's always the possibility of doing that, but I
6 will check.

7 DR. BRACEY: You can check and see if you
8 can do that.

9 Other business?

10 (No response.)

11 DR. BRACEY: Thank you. This is an
12 important step forward, and we hope to seize, again,
13 the moment.

14 (Whereupon, at 3:55 p.m., the meeting was
15 adjourned.)

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