

3934 '02 JUL 23 P1:24

UNITED STATES OF AMERICA
DEPARTMENT OF HEALTH AND HUMAN SERVICES
FOOD AND DRUG ADMINISTRATION

This transcript has not been edited
or corrected, but appears as received
from the commercial transcribing
service. Accordingly the Food and
Drug Administration makes no
representation as to its accuracy.

TRANSMISSIBLE SPONGIFORM ENCEPHALOPATHIES
ADVISORY COMMITTEE MEETING

Gaithersburg, Maryland
Thursday, June 27, 2002

BETA

Nationwide Court Reporting & Videography Services
... There is No Substitute for Quality

(202) 638-2400

1-800-522-BETA

(703) 684-BETA

1 PARTICIPANTS:

2 WILLIAM FREAS, Executive Secretary
3 Scientific Advisors & Consultants Staff
4 Center for Biologics Evaluation and Research
5 Food and Drug Administration

6 SHEILA D. LANGFORD, Management Specialist
7 Scientific Advisors & Consultants Staff
8 Center for Biologics Evaluation and Research
9 Food and Drug Administration

10 COMMITTEE MEMBERS:

11 DAVID C. BOLTON, Chairman
12 New York State Institute for Basic Research

13 JOHN C. BAILAR III
14 Department of Health Studies
15 University of Chicago

16 ERMIAS D. BELAY
17 Centers for Disease Control and Prevention

18 STEPHEN J. DeARMOND
19 Department of Pathology
20 University of California

21 LISA A. FERGUSON
22 Senior Staff Veterinarian
United States Department of Agriculture
APHIS, Veterinary Services

PIERLUIGI GAMBETTI
Division of Neuropathology
Case Western Reserve University

RICHARD T. JOHNSON
Division of Neurology
Johns Hopkins University School of Medicine

1 COMMITTEE MEMBERS (CONT'D):

2 J. JEFFREY McCULLOUGH
3 Department of Laboratory Medicine & Pathology
4 University of Minnesota Hospital

5 PEDRO PICCARDO
6 Division of Neuropathology
7 Indiana University

8 SUZETTE A. PRIOLA
9 Laboratory of Persistent and Viral Diseases
10 NIH/NIAID

11 ELIZABETH S. WILLIAMS
12 Department of Veterinary Service
13 University of Wyoming

14 SIDNEY M. WOLFE, Director
15 Public Citizen Health Research Group

16 CONSUMER REPRESENTATIVE:

17 SHIRLEY J. WALKER
18 Vice President of Health & Human Services
19 Dallas Urban League, Inc.

20 NON-VOTING INDUSTRY REPRESENTATIVE:

21 STEPHEN R. PETTEWAY JR.
22 Pharmaceutical Division
Bayer Corporation

* * * * *

C O N T E N T S

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22

TOPICS:

PAGE

Update on Implementation of Revised
Guidance On Blood Donor Deferrals
For Risk of CJD and VCJD:

Introduction 568

Effects on Blood Supply 577

Open Public Hearing 707

Studies of vCJD Infectivity in Blood
of Experimental Mice 709

Retention of TSE Infectivity by Planova
Nanofilters as a Function of Spike
Composition 749

* * * * *

P R O C E E D I N G S

(8:32 a.m.)

1
2
3 DR. BOLTON: If you'd take your
4 seats, I'd like to get started.

5 DR. FREAS: Good morning. I have
6 a few administrative announcements that I
7 would like to make. Yesterday morning we
8 read into the public record the conflict of
9 interest statement, and that conflict of
10 interest statement that we read into the
11 record pertains to today as well. Basically
12 it said that all standing committee members
13 have general matters, waivers in order to
14 participate in this meeting this morning.
15 This morning we will have several people
16 from several organizations coming to present
17 their organization's views. These people
18 were not screened for conflict of interest,
19 but all committee members were.

20 So, Dr. Bolton, I turn the meeting
21 over to you.

22 DR. BOLTON: Thank you, Bill.

1 Welcome back to the committee members and to
2 the public to our second day of this
3 meeting. Today's session really is
4 informational. We don't have any issues to
5 vote on, so it makes it a little bit easier
6 for us.

7 We're going to hear an update on
8 the implementation of the revised guidance
9 on blood donor deferrals for risk of CJD and
10 variant CJD that we have discussed many
11 times and I guess was published in January.
12 Is that right?

13 DR. SCOTT: That's correct.

14 DR. BOLTON: Yes. Our first
15 speaker will be Dr. Dorothy Scott from OBRR.
16 Dorothy.

17 UPDATE ON IMPLEMENTATION OF REVISED
18 GUIDANCE ON BLOOD DONOR DEFERRALS FOR
19 RISK OF CJD AND vCJD: INTRODUCTION

20 DR. SCOTT: Good morning. As just
21 mentioned, this part of the session is an
22 update on implementation of our new

1 geographic donor deferrals for risk of vCJD,
2 and today we're going to hear from blood
3 organizations, including the Department of
4 Defense, as well as HHS, about the impact so
5 far of the geographic donor deferrals.

6 I'm going to briefly give you a
7 little back of background about what went on
8 before, although I think this committee
9 probably remembers all of the work that you
10 did which has come to this. Briefly, this
11 is a chronology of how we came to the point
12 where we are at today.

13 This committee recommended vCJD
14 geographic donor deferrals in June of 2001,
15 and we incorporated your recommendations
16 into a draft guidance, which we published
17 near the end of August. We issued a final
18 guidance after the comment period in January
19 of 2002.

20 The implementation of the
21 FDA-recommended deferrals is in two phases
22 called Phase 1 and Phase 2. The first phase

1 has been implemented at the end of May, so
2 what you're going to hear today is about the
3 blood supply based upon this implementation
4 date, the different implementation dates for
5 the American Red Cross and the Department of
6 Defense, who implemented their own donor
7 deferrals last year in October. The Phase 2
8 of the FDA donor deferrals will be
9 implemented by the end of this October. I'm
10 going to show you a comparison of these, so
11 that it will make more sense in the context
12 of the presentations that are coming up.

13 I just want to remind you of some
14 of the issues that the committee and the FDA
15 had to take into account while deciding on
16 what donor deferrals to recommend because
17 obviously these geographic donor deferrals
18 had a good chance of affecting the blood and
19 plasma supply. So, these are among the
20 considerations. One of them is precedent.
21 The largest prior donor deferral we had
22 deferred approximately 5 percent of donors.

1 The estimated effects of the
2 deferrals that were actually incorporated
3 into the guidance were that about 90 percent
4 of the risk of BSE exposure would be
5 removed. So, this is based on estimated
6 donor-days exposure to BSE in European
7 countries.

8 But we also had to remember that
9 some locations in the U.S. would be more
10 affected by the new donor deferrals than
11 others, so this 5 percent is an estimate
12 from the REDS study that Dr. Williams talked
13 about yesterday. However, we anticipated
14 and we were told that the New York Blood
15 Center stood to lose up to 35 percent of
16 their supply. Around 25 percent of that was
17 because of their Euro blood program.
18 Dr. Jones will be talking about that in a
19 few minutes. It was also estimated that
20 coastal cities would have higher donor
21 losses because of the greater prevalence of
22 travel.

1 There were some efforts to attend
2 with the supply impact of the new donor
3 deferrals. But, first, written into the
4 guidance was phased-in deferrals for blood
5 and blood components other than source
6 plasma. That's why we have two recommended
7 dates of implementation for the different
8 deferrals.

9 We also accepted from the
10 Pan-European geographic donor deferral
11 source plasma, and I can talk about that if
12 you want to, but we have been over that and
13 we had presentations at the last meeting
14 talking about the effect of fractionation
15 and the removal of TSE agents in plasma
16 derivatives.

17 We also recommended pilot programs
18 for deferrals that were more stringent than
19 the ones that we recommended. This
20 committee additionally proposed a national
21 recruitment campaign and also that there be
22 a system to monitor the adequacy of the

1 blood supply, and you'll be hearing about
2 that from Steve Nightingale today.

3 Just a very brief review. These
4 are the deferrals that we recommended in our
5 final guidance. This is Phase 1, just
6 implemented. The deferrals are for
7 residence or travel to the U.K. for three
8 months and more between 1980 and 1996; for
9 France, five years more between 1980 and the
10 present; for people who have lived on U.S.
11 military bases for six months or more
12 between 1980 and 1990 north of the
13 Alps, 1980 and 1996 south of the Alps. This
14 was because of the British Beef to Europe
15 Program, in other words, these bases had up
16 to 35 percent British beef during these
17 particular years.

18 I do want to mention something
19 that's come up since implementation of the
20 guidance, and that is: We've had a lot of
21 questions about donors who were in the Navy
22 and who may have been living on ships that

1 were docked in these European countries
2 here. We have learned from the Department
3 of Defense that they did not eat British
4 beef to Europe and therefore those donors
5 are not deferred. It's only the donors that
6 resided or were associated with the military
7 bases that were on land, and the deferral
8 for recipients of transfusion in the United
9 Kingdom.

10 This is the second phase of donor
11 deferrals. This is deferral of blood donors
12 who've lived in Europe for five years or
13 more between 1980 and the present. Donors
14 of source plasma for plasma derivatives
15 remain eligible if they lived in Europe for
16 this period of time.

17 Finally, I just want to show you
18 what the donor deferrals are now that we
19 have in the U.S. We have the
20 FDA-recommended deferrals, the American Red
21 Cross deferrals, and the Department of
22 Defense deferrals. I've already outlined

1 ours just now, and you see our dates of
2 implementation here. The American Red Cross
3 implemented a somewhat different set of
4 deferrals in October of 2001, and I will
5 just point out the two most salient
6 differences, and I think that Dr. Page will
7 also be showing you a similar table.

8 Chiefly, we have the deferral, for
9 five years or more, between 1980 and the
10 present for people who resided in Europe.

11 The American Red Cross donor deferral is for
12 six months or more residence in Europe
13 from 1980 on. The Department of Defense has
14 the same deferral as we do.

15 In addition, the American Red
16 Cross deferral for the U.K. is for 1980 to
17 the present, whereas ours is from 1980
18 to 1996, as well as the DoD, and this is
19 based on our assurance that in the U.K.
20 contaminated beef has been kept out of the
21 human food chain since 1996, and this
22 committee heard a presentation -- several

1 presentations, I think, about that --
2 recently in January. However, I understand
3 from Dr. Page that the American Red Cross is
4 likely to also change its deferral, based on
5 these assurances as well, to be 1980
6 to 1996.

7 Now, I'd like to introduce our
8 speakers who are going to give us blood
9 supply updates. The first will be
10 Dr. Nightingale from Health and Human
11 Services, who will show us the results of
12 his blood supply and demand monitoring.

13 Dr. Robert Jones from the New York
14 Blood Center will speak next, followed by
15 Dr. Peter Page from the American Red Cross.
16 Then we'll hear from Dr. Celso Bianco of
17 America's Blood Centers, then from Major
18 Alfred from the Department of Defense, and,
19 finally, from Kay Gregory of the American
20 Association of Blood Banks.

21 So, thank you for your attention,
22 and unless there are any questions, we'll

1 move on to our first speaker.

2 UPDATE ON IMPLEMENTATION OF REVISED
3 GUIDANCE ON BLOOD DONOR DEFERRALS FOR
4 RISK OF CJD AND vCJD: EFFECTS ON BLOOD
5 SUPPLY

6 DR. NIGHTINGALE: I must explain
7 my first slide. The reason why you are
8 seeing the slide that you see is because
9 when I found that I was going to be speaking
10 right before Dr. Jones from the New York
11 Blood Center, I felt it was necessary to
12 acknowledge that we really do appreciate the
13 government, the difficulties that people who
14 come to Washington from New York
15 occasionally have, and if you're in the back
16 row, the gentleman in the foreground is
17 Mr. Posada of the New York Yankees, and the
18 gentleman with his back to you is
19 Mr. Matthews. He scored the winning run
20 last night.

21 As I was watching Mr. Matthews
22 score the winning run, I realized that

1 perhaps the Department had not gotten as far
2 as it could in implementing the national
3 campaign that you recommended at your last
4 meeting, and I realized they only had a few
5 hours to come up with a suggestion for that
6 campaign. So, here it is, with the caveat
7 that it's only a few hours old and that
8 suggestion is that you call it, "Give me an
9 O." There are no Orioles fans in here? Not
10 one? All right, there's one.

11 Let's go to business. Next slide.
12 I have presented the outline of our program
13 to you on several occasions, and so rather
14 than present it in detail I'll present it
15 very quickly. We monitor the supply end of
16 the blood industry by receiving daily
17 reports from three community-wide blood
18 services -- those in Seattle, Pittsburgh,
19 and Tampa/St. Pete. What we get from them
20 is daily reports of their inventory by ABO
21 and RH, their daily transfusion, their daily
22 outdates and their daily exports.

1 In this particular graph, the red
2 is the daily inventories and the blue is the
3 daily transfused and exports, and the black
4 line in the middle is the ratio of the two.
5 Actually to the perfectionist, the black
6 line is the median inventory in days of
7 inventory for these three blood sites. So,
8 what you see here -- what you would see
9 perhaps even better if I get this light
10 on -- is that this is -- this -- we started
11 last August 15th. These were the
12 inventories right before September 11th.

13 This is the September 11th bounce,
14 and this is the September 11th work-off.
15 This little dip here is right around
16 Christmastime, and when Christmas
17 utilization went down a little bit, the days
18 of inventory went up a bit. A little peak
19 in January, and what you can see is they
20 built up their inventories a little bit over
21 the spring, in anticipation of putting the
22 deferrals in, and, as you can see, starting

1 around May the 15th, the inventories have
2 indeed fallen a bit.

3 You can see that the ratio of
4 inventory to transfused here has also fallen
5 a little bit in the last six weeks. So, we
6 are seeing -- what I think that you will see
7 in other sites as well -- is that there is a
8 drop in the inventories but at least in the
9 sites that we're monitoring from the supply
10 side were still in the same range.

11 Down here is actually where the
12 business end of this graph is. You see the
13 peaks on Saturdays and Sundays when you
14 don't have so many surgeries and you have
15 the same amount of blood in the bank. We're
16 still over a five-day supply but we are
17 heading there on the producer side.

18 Slide. Can I have the next slide?
19 Okay, we've got the next slide.

20 This is the comparable data for
21 the 26 hospitals that we are monitoring
22 again. You can see there's a somewhat

1 smaller bump at September 11th because not
2 all of our hospitals collected their own
3 blood and most of the -- or, parts of it and
4 most of this bump was from the portion of
5 our hospitals that collected a significant
6 portion of their own blood. You can see
7 that there was a slight rise up until the
8 spring, and, really, right around the 15th
9 of May you start to see the drop-off that
10 you saw with the suppliers as well.

11 Again, when you look at the ratio
12 here, the business end is at the bottom here
13 where the dots cluster. We're still over 5
14 days. We're about 6.97 days. I didn't run
15 it last night. It was 7 the last time I ran
16 it a couple days ago for our average for the
17 last couple of weeks. But, clearly, we see
18 things tightening up.

19 For the next slide, next pair of
20 slides, I'm going to show you comparable
21 data for O negative. This is for the three
22 community-wide centers: Seattle,

1 Pittsburgh, and Tampa. You can see, again,
2 there was the jump -- the September 11th
3 jump. You can see it bounced up and down a
4 bit, and, again, you can see there is a
5 trend going down.

6 Where you look here, the key thing
7 on the side here, this is a five-day supply
8 of O-negative, and they're down below that.
9 I think this is the point at which I wanted
10 to introduce what I think is the utility of
11 this, just so that we have a track record
12 right now and whereas you see we are at the
13 low end of where we've been over the last
14 year, but we're still within range at this
15 point.

16 To go hospitals, you'll see the
17 same thing once again. Here you have --
18 things are getting tight. Things are
19 definitely getting tight here for
20 O-negative, but, again, this is five days'
21 supply, this is ten days' supply, and the
22 hospital had been running very substantial,

1 and it's coming down but we're still with
2 what I think is the same range.

3 There's only four more of these
4 slides, and this is the -- except for
5 Dr. Bailar, I think most of you will look
6 and hope that I change this pretty soon.
7 This is a box plot. The reason I'm showing
8 you a box plot is to try to show you that we
9 really do look at the individual sites on a
10 particular day to see what is the
11 distribution of their inventory, and this is
12 inventory in days of inventory.

13 This is the median of the days of
14 inventory of the sites, and the bars are
15 the 2575, and the spike go the 2595, and
16 probably most importantly -- it's a good
17 thing Dr. Bailar is in the front row so at
18 least he can see this -- the boxes below
19 the 95th percentile are our lowest numbers.
20 Those are the folks who are below the 95th
21 percentile.

22 What I have this up here to show

1 you is that while -- you can see some of the
2 excess up here in post-September. The
3 distribution of the inventories across
4 our 26 sites has remained pretty constant.
5 I think again what we're seeing is called a
6 "leakage" for want of a better word. I
7 believe we definitely see a trend from the
8 sites that we monitor -- at least we see a
9 trend but we haven't seen a crash yet.

10 The next slide, please? I have
11 this on here briefly to remind you, again,
12 that we have a track record here, and
13 this -- over a year this track record --
14 this is outdated from the hospitals to
15 remind you that when we went from seven days
16 to ten days to fly at the hospital level
17 shortly after September 11th, we went from
18 virtually zero, maybe one or two units
19 outdated today, to a larger number -- still
20 a small number. But this is a rough
21 estimate of what we see as the hospital
22 baseline as closer to the top than to the

1 bottom of their optimal utilization.

2 The next slide? This is the
3 seventh of eight slides and is, to me, the
4 most meaningful to explain to you what it
5 is -- so that what we're trying to do with
6 this monitoring program. What you have
7 here -- and I apologize for those of you in
8 the back -- it says "Frequency of blood
9 shortage reports by week." Bottom line is
10 they're going up.

11 These are reports that we get from
12 the sites that say either an order was
13 delayed, an order was not completely filled,
14 or we had to go to a non-customary site to
15 get blood to fill our orders. Before
16 September 11th, we didn't see much. That
17 little blip was the September 11th, led by,
18 I believe, 42 days after September 11th when
19 there was a surfeit of blood in the system.
20 There were no such reports.

21 What we saw was a buildup around
22 Christmastime. A little bump in here which

1 is not entirely explained but just might be
2 a little internal part of the program. We
3 had a meeting in February where some people
4 said, you know, we think you're not getting
5 the whole story, so we had a transient rise
6 of about three or four sites reporting
7 shortage.

8 It went away, but there is no
9 mistaking this trend. As in the last four
10 weeks, the reports of these shortages, which
11 we're calling "near misses," are definitely
12 on the up. We anticipate that these will be
13 precursors of more serious events where
14 elective surgery has to be canceled if in
15 fact we get to that point.

16 The last of my slides is that we
17 do track this on a daily basis. This is the
18 median inventory in our hospitals, and
19 there's only a single dot there, and that
20 single dot there is not that elective
21 surgery had to be delayed or canceled or
22 nonelective surgery had to be delayed

1 because of a blood shortage, but that was
2 one case where it had to be delayed because
3 AB negative plasma was unavailable.

4 In a nutshell, then, what we have
5 seen so far is: No. 1, inventories are
6 clearly slipping; probably No. 1A,
7 inventories, as far as we see them, are
8 still within the range but definitely at the
9 lower end of the range that we've seen over
10 the past year, the first year of this
11 monitoring program; no. 2, the daily reports
12 of what we call near misses -- incompletely
13 filled orders and so on -- are definitely on
14 the rise; but No. 3, we have not yet in our
15 sample gotten a report of elective surgery
16 being delayed or cancelled or nonelective
17 surgery being delayed because blood was
18 unavailable.

19 That will be it.

20 DR. BOLTON: Thank you,
21 Dr. Nightingale. Are there questions from
22 the committee?

1 DR. BELAY: Steve, what's the most
2 recent inventory data that we have? Is it
3 through May or June?

4 DR. NIGHTINGALE: The most recent
5 inventory data that you have is of 8 o'clock
6 last night. I put this together after I
7 came back from the ball game last night.
8 Literally.

9 DR. BELAY: Do you expect to see a
10 drop in the summer, for example, because of,
11 you know, summer vacations and everything
12 else?

13 DR. NIGHTINGALE: I expect to see
14 a drop in the summer, but I think it's
15 important to remember that this is new
16 methodology. What we're picking up here is
17 daily inventory reports and I've given you
18 the raw data rather than moving averages.
19 And it's not just because I have a
20 statistician in front of me, but because I
21 think we really need a full year's worth
22 of experience with this system and

1 experience comparing this system to the
2 other systems, other efforts by other
3 individuals in place to get, first of all,
4 the worth of this system and, secondly, to
5 see how we can make this system better.

6 There is a very specific problem
7 here that we're trying to address, which is
8 when you're watching a moving line on a
9 daily basis, when do you know that you have
10 a trend? We are very fortunate that Jay
11 Kadane of Carnegie-Mellon is working with us
12 on that. That's not a simple question.

13 So, I think right now what I think
14 the best that we can do for our colleagues
15 is to say this is our raw data and to make
16 it available as quickly as we can so that we
17 can learn from this. Hopefully we can help
18 the people who manage the blood supply
19 manage it better by this.

20 DR. BOLTON: Other questions? I
21 have one, Steve. In your centers, what
22 percentage of elective surgeries use

1 autologous blood donations?

2 DR. NIGHTINGALE: We're not there
3 yet. The only things that we do this year
4 are we collect inventory data and we collect
5 shortage information. This program might
6 very well develop into that but it would
7 take more money than we have for it right
8 now.

9 DR. BOLTON: So you don't have an
10 idea -- for example, when you say that
11 elective surgeries are being delayed because
12 there's not blood, you don't know how much
13 that could be alleviated by autologous blood
14 donation.

15 DR. NIGHTINGALE: We made a
16 deliberate decision not to include
17 autologous blood in these calculations, and
18 also we don't include partial units -- the
19 pediatric units -- in this calculation for
20 consistency. I think the issue of
21 autologous blood utilization is something
22 that my colleagues who are transfusionists

1 rather than nephrologists or bureaucrats are
2 better equipped with it than I am.

3 DR. BOLTON: Thank you. Our next
4 speaker will be Dr. Robert Jones from the
5 New York Blood Center, and he will give us
6 the update on the effects --

7 DR. JONES: We have a global
8 communications problem. It goes beyond my
9 presentation. If you could just give us a
10 minute.

11 DR. BOLTON: Technological glitch.
12 Anything anybody wants to say?

13 I guess I'll take this opportunity
14 to say something I meant to say before we
15 began the presentation this morning. That
16 is that in our deliberations yesterday we
17 were talking about trying to anticipate the
18 effects that any decisions, recommendations
19 that we made would have on tissue donations.
20 And today we're getting an update on the
21 effects that our deliberations over the last
22 year, year and a half have had -- the

1 guidance changes that we are having now on
2 the blood supply.

3 So, in some respects it might have
4 been a good idea to have this update first,
5 as a sort of precautionary informative
6 session. But in other ways, maybe that's a
7 good thing that we didn't.

8 DR. JONES: We are getting close.

9 Here we are. Steve's presentation
10 was interesting and important, and it brings
11 to us the perspective of the hospital. Now
12 I'll try to bring you some perspective -- I
13 think others that follow me will bring you
14 the perspective of those that are closer to
15 the source of this precious life-saving
16 resource, the Donor Center perspective.

17 I'll start off by giving you some
18 good news, some feel good information,
19 followed by some information that doesn't
20 feel so good. Not quite one month has
21 passed since implementation of the first
22 phase of FDA's vCJD blood donor guidance

1 recommended by this committee. Although it
2 was very difficult to get much real
3 quantitative information on the state of the
4 supply, much anecdotal information is
5 accumulating, suggesting that a hazardous
6 state of the nation's blood supply is both
7 likely and imminent.

8 At present, red blood cell supply
9 at New York Blood Center available for our
10 hospitals is more than adequate. Since the
11 announcement of the guidance, we have been
12 preparing for potential supply shortfalls by
13 major reengineering of our blood donor
14 recruitment and collection campaigns.

15 Significant augmentations were
16 made in our collections goals over and above
17 our already aggressive and successful
18 campaigns. Resources have been invested in
19 news staff and recruitment and recruitment
20 campaign strategies and materials.

21 Resources have been invested in new staff
22 and recruitment campaign as necessary.

1 We have also carefully and
2 deliberately secured supply agreements with
3 a diverse array of U.S. Blood providers
4 that range from 6,000 units per year up
5 to 60,000 units per year from small
6 independent blood centers to networks of
7 independence, such as ABC and BCA, up to the
8 largest single U.S. blood provider, the
9 American Red Cross. We salute the
10 commitment of these blood-carrying
11 organizations to help the New York area
12 through this difficult implementation
13 period.

14 We deliberately structured our
15 agreements to supply a substantial cushion
16 because of the uncertainty that we faced and
17 continue to face around how national donor
18 willingness will play out. Euro blood
19 supply continued to be shipped until
20 May 31st. Actually, we do continue to
21 receive the debt supply but that was a very
22 small proportion of the overall supply. So,

1 essentially Euro blood is almost over.

2 Finally, we have had significant
3 gains in collections and processing
4 efficiency so that our discards and rejects
5 rates are reduced. With all this our red
6 blood cell inventory has sustained at more
7 than a sufficient level for months.
8 However, even with limited information since
9 June 1st, a frightening trend is beginning
10 to develop. Since the end of May our
11 overall red blood cell inventory, while
12 still adequate, has dropped by 27 percent.
13 So, we're riding up here and now we're
14 starting to come down, more or less
15 reflecting some of the things Steve was
16 talking about.

17 Availability of type O-negative
18 blood will soon be at a rationing level.
19 Actually, at the time I wrote this that was
20 soon to be; now it is.

21 Our whole blood collections have
22 dropped precipitously to 13 percent below

1 last month, May 2002; 19 percent below what
2 would be expected for our whole blood
3 collection campaign; and 12.5 percent below
4 June of 2001 one year ago. The number of
5 donors presenting it during the first 17
6 days after implementing the guidance is 13
7 percent lower than last year at the same
8 time. This is most marked in our
9 collections in New York City and in New
10 Jersey.

11 It is equally disturbing that many
12 of our new U.S. suppliers are reporting
13 substantial collections difficulties as well
14 and are now not able to meet their
15 commitments to New York. This includes both
16 independent ABC Centers and American Red
17 Cross supplies.

18 Individual centers are reporting
19 unexpected impact of vCJD referrals,
20 particularly those related to military
21 service. During this timeframe, ABC reports
22 a significant increase in centers reporting

1 less than one-day supply to where it is now
2 in excess of 33 percent. I'm sure Celso
3 will give you an update on that.

4 This indicates severe supply
5 problems emerging in other parts of the U.S.
6 and if this phenomenon is sustained, the
7 supply in the New York/New Jersey area will
8 eventually be as low as, if not lower than,
9 those parts of the U.S. We believe that the
10 causes of this impending supply crisis are
11 multifactorial and only partially resolvable
12 in the short term. First, the loss of Euro
13 blood is clearly important to the New York
14 area supply and, as such, impacts the
15 national supply.

16 Actually, I might switch to the
17 second slide quickly.

18 This is our collections curb, just
19 to show you quickly. This is the
20 September 11th. This is the trough that I
21 refer to, and this is our June number. So,
22 you see, we're climbing back out of that

1 trough, and this is what we project for
2 June, only two or three days to be
3 completed.

4 Second, after Euro blood loss, the
5 timing suggests the vCJD guidance is playing
6 a major role in reduced donor willingness to
7 donate, as well as actual exclusion from the
8 donor pool. Whereas ARC shortages are
9 clearly not due to recent vCJD deferrals,
10 non-American Red Cross centers are clearly
11 being impacted, particularly those that are
12 dependent on military and military retiree
13 donors. Many centers report that it is not
14 only the number of donors that are being
15 lost; as importantly, the types of donors as
16 those who meet the criteria are often
17 regular and frequent donors or apheresis
18 donors of platelets.

19 Third, there remains a donor
20 apathy that continues to suppress blood
21 donations nationwide since the surge of
22 donations following 911. This is

1 exemplified in the trough of our monthly
2 collections curve that is yet to return to
3 our expected collections baseline. I just
4 referred to that. After the peak, there was
5 this trough. We were climbing out of it,
6 and now we see the June number.

7 Whereas the magnitude of the
8 suppression is difficult to quantitate and
9 varies widely from center to center, our
10 center has yet to fully recover from this
11 reduction in donations, and most centers
12 report similar pictures.

13 We estimate that when the units
14 lost because of collection and processing
15 errors and expiration is factored in, so far
16 the total loss of whole blood units for
17 transfusion from the 9-11 experience was
18 about 5 percent of our annual collections.
19 Our experience more recently with focus
20 groups on 9-11 donors also tells us that the
21 U.S. donating public is still angered over
22 the massive outdateding of red cells that

1 occurred and was reported after the 9-11
2 donations.

3 These groups tell us that they
4 don't understand that blood is perishable
5 and that throwing away their donations is
6 unacceptable. Furthermore, they report that
7 they are unlikely to respond to appeals for
8 blood donations given the experience
9 after 9-11.

10 Finally, there's the historic
11 drop-off in blood donations in the summer
12 months. Particularly disturbing is the
13 sense that this drop-off began occurring in
14 April and May, months that usually have high
15 donation rates. This deterioration has
16 accelerated in June and just two days ago
17 ABC, AABB, and ARC released a national
18 appeal for blood donations. An appeal this
19 early in the summer is a dangerous sign that
20 the conditions may get worse unless there is
21 a massive outpouring of donors.

22 These forces taken together

1 portend a very serious problem with the
2 blood supply that threatens to disrupt
3 hospital care nationwide. Again, I
4 emphasize that the supply in the New York
5 area is sufficient at the moment. Based on
6 assumptions of several weeks ago our supply
7 is forecast to be adequate through the
8 summer months.

9 However, our assumptions did not
10 include a massive shortfall in collections
11 throughout the country that would impact our
12 new suppliers and reduce their ability to
13 supply New York. Nor did they include the
14 magnitude of reductions in donations we
15 currently see in the New York/New Jersey
16 area. The overlay of vCJD deferrals on the
17 current donor apathy and summer donation
18 contraction is a formula for disaster.

19 Every day the nation's blood care
20 systems must create the red blood cell
21 supply that will last for only 42 days. We
22 are not banks. We are pipelines. The

1 nation's blood supply is neither static nor
2 stable. It is dynamic and emminescent
3 (phonetic). As such, assumptions we made
4 about supply even two months ago may not be
5 valid. There is no reserve supply to meet
6 demand if collections continue to
7 deteriorate.

8 In light of the current national
9 problems in blood donations, we urge this
10 committee, again, to reconsider its
11 precautionary position on vCJD referrals.
12 While this policy was pursued in the good
13 name of blood safety, we fear that patient
14 safety is now in jeopardy.

15 Thank you.

16 DR. BOLTON: Thank you, Dr. Jones.
17 Questions from the committee?

18 DR. WOLFE: Back about 10, 12, 15
19 years ago, I think at the peak then there
20 was a big campaign, particularly at the
21 hospital level but elsewhere to do more
22 autologous blood. I'd just like to ask

1 you -- Dr. Nightingale deferred the question
2 about that, that came from Dr. Bolton --
3 what has your organization done recently, as
4 in since the time that this program was
5 going -- it was planned to be implemented
6 to -- even though it's a little bit out of
7 your purview. But as part of a campaign to
8 try and improve the balance of the blood
9 supply, what has your organization done to
10 promote more autologous blood donations?

11 DR. JONES: Well, it's not out of
12 our purview at all. We actually supply that
13 service to virtually all the hospitals in
14 the area.

15 DR. WOLFE: In terms of your
16 public affairs, what have you done recently
17 as part of your other efforts to try and
18 keep the blood supply in balance?

19 DR. JONES: Well, our first
20 efforts are to try to get more donations
21 from the public. We've always encouraged
22 autologous donations. When we get questions

1 about it we talk to our hospitals. The
2 logistics around that are much more
3 difficult than the standard way of operating
4 with getting blood supply in through the
5 public donors.

6 DR. WOLFE: So you haven't done
7 anything new in the wake of this pending
8 disaster that you're describing?

9 DR. JONES: We have done lots new
10 to increase the --

11 DR. WOLFE: New things on
12 autologous specifically.

13 DR. JONES: Oh, no.

14 DR. WOLFE: You've not done
15 anything new.

16 DR. JONES: No, other than to be
17 available and encourage blood bank
18 directors. We work very closely with them,
19 and they're always ready to accelerate that
20 if necessary.

21 DR. WOLFE: It seems to me that --
22 I mean, I think your point about people

1 being turned off because of having to dump
2 blood that was collected in the wake of
3 September 11, and also there is still some
4 residual concern about getting infections --
5 some rational, some not rational -- I mean,
6 giving blood is not some way you get an
7 infection. But I think that it would seem
8 like an ideal time to capitalize on those
9 concerns and mount a much bigger and newer
10 campaign on autologous blood.

11 I mean, the -- when this was done
12 back when, it resulted in a very important
13 increase and then it sort of faded out.
14 There hasn't been as much publicity. I just
15 would suggest that -- and I will to everyone
16 who makes presentations today -- that they
17 ought to figure out what they can do that
18 they haven't done.

19 You've said you've done anything
20 new in the wake of this to try and encourage
21 autologous blood. Obviously it's not the
22 only strategy, but it's one that cuts

1 through a lot of the problems that you've
2 described.

3 DR. JONES: Yes. Now, we have, in
4 fact, in the last few months, when we meet
5 with our blood bank directors, which is once
6 a month, put autologous donations on a
7 higher plane of availability and their
8 awareness. So, we're talking about it where
9 the blood bank directors. We can't --

10 DR. WOLFE: But that's internally.
11 That's, again, not public relations and
12 trying to get the public to do this, right?

13 DR. JONES: It's really the
14 doctors' decision. That's really the people
15 we have been working with.

16 DR. BOLTON: Dr. Linden?

17 DR. LINDEN: Well, just, along
18 that line I'd just like to disagree that I
19 don't think that would be a particularly
20 beneficial approach. At this point, over
21 half of autologous blood is not used. It's
22 not needed.

1 Most of the patients who are the
2 best candidates for autologous are already
3 donating. If you had a broad-based appeal
4 to the public, all you're going to get is
5 patients who don't really need it and who
6 aren't going to use it, and it's just going
7 to use up resources that could be directed
8 toward promoting community donations. I
9 mean, I'm not saying something couldn't be
10 done, perhaps with the physicians, but I
11 don't think that's something that would
12 really particularly productive.

13 DR. WOLFE: I thought there had
14 been a fairly measurable fall-off, you know,
15 to autologous blood after the campaigns
16 of 10 or 15 years ago. I mean, maybe a lot
17 of people are doing this. But I think there
18 are still a lot of unawareness on the part
19 of the public.

20 DR. BOLTON: Let me jump in. I
21 mean, I brought this up because I had back
22 surgery six or seven years ago and I was

1 basically told, "You will donate autologous
2 blood," and that's it. It was just part of
3 the procedure. It seemed to me quite
4 reasonable. In fact, I was upset that I had
5 to sign the waiver that said I realize that
6 if they don't use my blood on me, they'll
7 throw it away. Since I'm a normal regular
8 blood donor, it seemed kind of a shame to do
9 that. But I understand the paperwork behind
10 getting my autologous donation mixed up with
11 the general supply. That sort of makes
12 sense.

13 But it seems to me that, for
14 elective surgery, good communication with
15 the surgeon to -- not from the public up but
16 from the surgeon down -- to implement this
17 kind of practice could save a tremendous
18 amount of blood. It certainly would reduce
19 the number of elective surgeries that have
20 to be delayed because there isn't blood
21 available. That was my only point.

22 Steve, did you have a comment?

1 DR. NIGHTINGALE: Yes. It might
2 actually be easier for a nephrologist and
3 bureaucrat to make this comment than, say, a
4 blood bank director, given these particular
5 circumstances. But as someone who actually
6 has been very actively involved in the blood
7 business for the last five-year period, here
8 is my response to Dr. Wolfe.

9 Autologous blood donation, when it
10 was first proposed and implemented, seemed
11 like the ultimate no-brainer, something that
12 couldn't lose. In fact, the experience with
13 it has been much less successful than was
14 anticipated, and I believe the best summary
15 of that is in the review of transfusion
16 medicine.

17 Was Mark the first author -- it's
18 a two-parter in The New England Journal of
19 Medicine -- Mike Collings over there can
20 give you the reference -- that the
21 expectations have not been realized because,
22 first of all, the population that you're

1 drawing from is not necessarily the
2 population that has the same likelihood of
3 using blood as the population as a whole.

4 So you've got that imbalance there and that
5 is why a little bit over half -- Dr. Linden
6 may have the exact number of the blood that
7 is not used.

8 The second is that the amount of
9 blood that you can get in the 42 days from a
10 stable population may not match the dose
11 that the individual needs. You may have the
12 blood in the bank and you say, "What the
13 hay; let's give them a unit." But that
14 practice is not popular anymore.

15 Blood is like a lot of medicine.
16 Usually you don't need it, but when you need
17 it, you need a lot of it. I think in a
18 nutshell that may explain why autologous
19 donation has not been more enthusiastically
20 proposed either in the blood world as a
21 whole or in this meeting this morning.

22 DR. WOLFE: But in a time of

1 crisis, at least as has been described, do
2 you not think, particularly because there
3 hasn't been a campaign recently, that that
4 could not be one of the important components
5 of trying to get the balance back?

6 DR. NIGHTINGALE: I think, real
7 quick -- and here I am speaking back as the
8 bureaucrat nephrologist -- what we need is
9 long-term solutions to the summer slump. As
10 Bob said, there's a lot of things going on
11 here, but one of the things that's going on
12 here is the summer slump.

13 The summer slump, yet early -- how
14 much of this was a 531? I don't know.
15 Nobody else knows. But this is a summer
16 slump here. It's ABC, ARC as far as I can
17 tell, at least from my limited perspective,
18 equally, and we've got to get out of the
19 pattern of summer slumps and winter slumps,
20 and that's going to take a lot of head
21 scratching. That's a solution to our
22 problem.

1 DR. BOLTON: Dr. Linden?

2 DR. LINDEN: Just to follow up
3 briefly on this, I agree completely with
4 what Dr. Nightingale said and would just
5 like to add that in fact studies have shown
6 that most of the patients -- or many of
7 them -- who do need blood following surgery
8 who donated autologous blood is because
9 basically they were anemic when they went
10 into surgery because they don't -- if you
11 compare them with patients who didn't do
12 autologous donations, and other patients
13 with the same blood loss don't need the
14 transfusions; so basically they're just
15 getting the blood back because they lost it
16 in the first place. So, promoting more of
17 that in the same types of patients, you
18 know, I don't think would be particularly
19 productive, in my opinion.

20 DR. BOLTON: Ermas?

21 DR. BELAY: I was trying to
22 understand the Euro blood loss. Most of the

1 ----- policy would not kick in until probably
2 October.

3 DR. JONES: That's true. The big
4 Euro blood loss -- and we knew this several
5 months ago -- our biggest program was the
6 Swiss program. They elected, for many
7 reasons, many political, not to ask the
8 French question; so that took them out. And
9 the Germans followed along with the Swiss;
10 they work fairly close together, those
11 programs. So that leaves the Dutch who were
12 willing to incorporate the question about
13 France into their donor forms.

14 DR. BELAY: You predicted an
15 impending supply crisis, which you said is
16 multi-factorial?

17 DR. JONES: I'm sorry?

18 DR. BELAY: You say the impending
19 crisis is probably multi-factorial?

20 DR. JONES: Yes, I listed the
21 factors.

22 DR. BELAY: Can you give us an

1 idea what proportion of that would be
2 attributable to the foreign policy that we
3 recommended?

4 DR. JONES: Well, for us the
5 timing suggests there's a strong impact on
6 our own collections of the deferrals. We
7 anticipated that because of the cosmopolitan
8 nature of our donor base. I think the
9 coastal areas were forecast to have much
10 bigger impacts of vCJD deferral than for
11 travel than any other parts of the country.
12 So, we predicted that.

13 We did surveys last year, which
14 predicted something like 7 percent loss
15 total when all the phases were in. Now
16 we're seeing we don't know what's relative
17 to CJD but we've seen in the first three
18 weeks 13 percent drop-off in donations or
19 people showing up for the drives.

20 MS. KNOWLES: Can I ask a
21 question? Can you give us that in numbers?
22 How many numbers does that translate to, in

1 terms of donors?

2 DR. JONES: Over the period of
3 the -- well, let me put it this way. We
4 anticipated 40,000 donations for the month
5 of June. We're going to come in at 33.

6 DR. BOLTON: Yes? Please
7 introduce yourself.

8 MS. ELSAADANY: I am Susie
9 ElSaadany. I am Chief of the Statistics
10 ---- Section at Blood ---- Health, Canada --
11 Ottawa. I'd just -- I'd like to elaborate
12 on the autologous issue. I just recently
13 finished a study on autologous utilization
14 at one of the biggest hospitals in Ottawa.
15 I'd like to say that autologous blood
16 donation is quite expensive. And also we
17 collect autologous blood for just-in-case
18 scenarios. Therefore, we end up losing
19 between 60 to 64 percent of the autologous
20 blood collected, because it turns out the
21 patient doesn't need it. So, I think it's
22 quite expensive, unless you have a good

1 utilization program, then it is quite a
2 waste, in my opinion.

3 DR. BOLTON: Thank you. Steve,
4 and then John.

5 DR. DeARMOND: It seems like
6 there's -- very simple-minded. This is way
7 out of my realm. But two major factors seem
8 to be involved here at least: First, was
9 the deferrals that the FDA recommended -- no
10 question. But clearly from the charts, New
11 Yorkers will respond when needed.

12 DR. JONES: You may have to bring
13 a couple of buildings down. That's the
14 problem.

15 DR. DeARMOND: But the results
16 after that, of the rejection of giving
17 blood, is also -- that seems unreasonable.
18 So there seems to be a second problem, which
19 is: A poor education of the -- so, has
20 there been increased attempts to educate the
21 individual of the population in this area --
22 on TV, at baseball games, at other places --

1 DR. JONES: Yes, yes, there have
2 been attempts. In New York, the New York
3 area, the message level is so intense that
4 to drive any message through that chaos of
5 messages is very difficult. You know,
6 crises get through fairly quickly, but
7 routine -- certainly PSAs don't do the
8 trick. Paid advertising is prohibitively
9 expensive in our area to do that. So, what
10 we've elected to do is educate donor
11 chairpeople. The best education and the
12 best way to recruit blood donors is face to
13 face. We've learned that over a period of
14 time.

15 Massive appeals. Our experience
16 with advertising has not been real
17 productive, and perhaps it's because of the
18 nature of our market that it's very
19 difficult to get messages through. Other
20 markets where there aren't quite so many
21 messages may be easier. But it's clear that
22 the American public -- and I'm not just

1 talking about New York -- the American
2 public has no clue as to the way blood is
3 perishable -- No. 1, that you have to get
4 the supply in every day because it expires
5 in 42 days.

6 They were agas that this blood was
7 thrown away. It wasn't just the American
8 Red Cross. We had to discard lots because
9 we didn't have transfusion recipients for
10 all that blood.

11 DR. DeARMOND: So, don't they
12 believe it when you say that?

13 DR. JONES: I just think it's
14 something that doesn't register. You know,
15 blood donation is not something that's at
16 the top of my mind. I wake up every morning
17 thinking about this, as does Peter and many
18 people in this room, but we're a very small
19 minority of the population.

20 DR. DeARMOND: But that message
21 must be like taking drugs. If you say "No,"
22 you should say, "Blood supply is

1 perishable."

2 DR. JONES: I think if we had --
3 listen, I think if we had a national
4 campaign sponsored by the federal government
5 to drive this message home, it would work.
6 We've been calling for that for well over a
7 year, and it's not happened.

8 DR. DeARMOND: Well, that is the
9 question. How do you pay for it? I think
10 that you're right, that's really the way
11 it's got to happen.

12 DR. JONES: The blood care system
13 does not have the reserve dollars to do
14 this. We're struggling day to day just to
15 get the blood supply.

16 DR. DeARMOND: How could that be
17 done? How could we get the government to do
18 that?

19 DR. JONES: Well, you made a
20 recommendation through the FDA to the
21 Department of Health and Human Services, and
22 I'm -- as a matter of fact, we sat with the

1 Secretary himself and urged this, and it
2 doesn't seem to be happening. There are
3 other priorities. We all understand that.
4 Unfortunately, it may take a crisis or a
5 disaster to bring that about.

6 DR. BOLTON: Dr. Bailar?

7 DR. BAILAR: It's really just been
8 covered. I'm concerned that I haven't heard
9 messages of any urgency. I stay in very
10 close touch with the news media, read three
11 newspapers regularly every day, a fourth one
12 on Sunday, I'm in and out of a lot of
13 hospitals. Somehow this message just isn't
14 coming through and something has to be done
15 about it.

16 It may take a very long-term
17 approach to this. You have people out in
18 schools telling kids these messages. Give
19 them something to take home to their
20 parents.

21 DR. JONES: Yes, we do. As a
22 matter of fact, we have intensive programs

1 related to the Department of Education,
2 actually now through the New York Academy of
3 Medicine, that takes on the task of health
4 education in high schools in New York City,
5 and this is part of their curriculum. So,
6 there are numerous ways that we're working
7 to get the education out there. But, again,
8 it's a small message -- big to us but a
9 small message in the fabric of numerous, and
10 sometimes others think more important,
11 messages.

12 DR. BAILAR: I would guess from
13 what I hear here and other places that the
14 problem is not that the public is reluctant
15 to donate but that they don't understand the
16 need.

17 DR. JONES: I think there's two
18 things. The 9-11 situation definitely put a
19 new dynamic into the system as to the
20 public's willingness or interest to donate
21 blood. Now, there was a significant amount
22 of backlash that all the blood care

1 organizations felt around that. As much as
2 you tried to educate them, this was
3 something that was inevitable because of --
4 and that you can do what you can to freeze
5 blood, that that strategy is expensive and
6 not as effective.

7 Still, the public operates on a
8 very day-to-day kind of, you know,
9 what-have-you-done-for-me-in-the-last-
10 ten-minutes mode of thinking, and so I think
11 we're dealing with that psychology. It'll
12 slowly, you know, ebb away as we have more
13 appeals.

14 I think one of the things we
15 learned from 9-11 is the destructive impact
16 of allowing that kind of surge of donations
17 to happen. We simply must not let that
18 happen again because of the destructive
19 impact. We lost a lot of ground.

20 DR. BOLTON: Dr. Linden?

21 DR. LINDEN: Yes. In terms of
22 government actions, I can just let you know

1 that Commissioner Novello has made funds
2 available for a project that we're pursuing
3 shortly through the Department of Motor
4 Vehicles in New York, and everybody who
5 renews a driver's license or car
6 registration is going to be getting an
7 insert that talks about the need for blood
8 and gives the 800 numbers for both the Red
9 Cross and the New York Blood Center.

10 We're going to start with a
11 million of those and then go from there and
12 see how that works. I'm not overly
13 optimistic but it's an interesting sort of
14 experiment, and if it were to work, that
15 would be something that could be considered
16 in other states as well. Now, of course,
17 I'm from New York. There's a lot of people
18 in New York City that don't drive, but we'd
19 at least reach some of the them.

20 DR. BOLTON: Those that drive
21 don't drive well.

22 DR. JONES: I might add there's

1 another dynamic sort of creeping into the
2 system as we've talked to donors and focus
3 groups, and that is the perception that's
4 out there, especially with a lot of recent
5 publicity about artificial blood and blood
6 replacements, that this doesn't have to
7 happen anymore, that they don't have to come
8 to blood donation centers or go to blood
9 drives because we've got the answer. It's
10 artificial blood.

11 Now, we all know in this room that
12 that will help. That's No. 1. No. 2, it's
13 not here yet, and No. 3, we don't really
14 know what the therapeutic utility of
15 those -- or downside -- of those products is
16 going to be as yet. For the public to have
17 that perception is most unfortunate.

18 DR. BOLTON: Other questions?
19 Well, I actually just want to make one
20 comment. For those that didn't understand
21 what Dr. Jones was saying when he said that
22 the Swiss and the Germans didn't want to ask

1 the French question, that's because the
2 French -- the deferral for residence in
3 France for greater than five years is part
4 of the Phase 1 deferral, and that had to be
5 implemented in the Euro blood portion, even
6 though Euro blood is Phase 2. So, if they
7 weren't willing to ask the question, then
8 you couldn't use that blood essentially.
9 So, that's what the French question was.

10 DR. JONES: That's right. Sorry
11 if I didn't make that clear.

12 DR. BOLTON: Thank you, Dr. Jones.

13 DR. JONES: Thanks.

14 DR. BOLTON: Our next speaker is
15 Dr. Peter Page from the American Red Cross.
16 Dr. Page?

17 DR. PAGE: Thank you very much. I
18 appreciate the opportunity to provide some
19 information that the Red Cross has collected
20 in this matter of concern.

21 Next slide, please. Dr. Scott has
22 reviewed already the chronology of deferral

1 criteria that the FDA guidance has done and
2 also deferred to the Red Crosses. Just by
3 way of background, there was an initial vCJD
4 deferral back in March of 2000, which we
5 implemented; and then early in 2001 Red
6 Cross gave great thought to the appropriate
7 thing to do and picked some geographic donor
8 deferral criteria based upon the concern and
9 the uncertainty of the epidemic and the
10 risk, saying at the time that these criteria
11 could be changed as new data might become
12 available in the future.

13 Next slide. That decision in the
14 spring of 2001 was implemented in October
15 of 2001. It takes some time to write our
16 procedures, our training material and to
17 train our 7,000 collections staff scattered
18 to 36 regions throughout the country in
19 order to do it. Then subsequent to that in
20 early January the FDA issued the guidance
21 that would take place in two phases -- June
22 and November of this year. So, the Red

1 Cross implemented it earlier and not at the
2 time that other blood centers implemented
3 their changes.

4 Next slide. This is a little bit
5 more detailed than Dr. Scott's slide just to
6 show that there have been changes in
7 deferral and that the FDA, the Red Cross,
8 and the Department of Defense have had
9 differences already, and the last two lines
10 just point out that Canadian Blood Services
11 in Héma-Québec, have different criteria as
12 well, including some that are even more
13 strict in Quebec than ours.

14 Next slide, please. I'll focus on
15 the two major differences as I think
16 Dr. Scott did -- presence in the U.K. for
17 three months. The American Red Cross
18 started off with 1980 to the present, and
19 that remains today our stance. The FDA cut
20 it off in '96. The other major difference
21 is for the rest of Europe, which is -- for
22 everybody it's still from '80 to the present

1 that we require only six months' presence
2 whereas the FDA and most of the rest of the
3 U.S. is five years.

4 There are some minor differences I
5 want to focus on here as to military bases
6 and small neighboring countries, which for
7 simplicity of operations and minimization of
8 errors we chose to do a little bit of
9 lumping.

10 Next slide, please. So, first the
11 U.K. deferral. I've already mentioned our
12 criteria and the FDA criteria. Based upon
13 input from several consultants with
14 experience with vCJD and BOC in Europe and
15 elsewhere, and also upon the reassurance of
16 this committee a meeting or two ago about
17 the effectiveness of measures in the U.K.,
18 in 1996, Red Cross has decided to not
19 discriminate against perfective donors for
20 time spent in the U.K. since '96. We will
21 be consistent with the FDA guidance in that
22 regard, and our implementation time, for

1 that is targeted for November of this year
2 once again because we have to reprint our
3 forms, develop training material, and train
4 all our staff.

5 Next slide. However, for the rest
6 of Europe deferral criteria, where we have
7 only six months' presence required for
8 deferral rather than five years, the
9 consultants advised us that due to the lack
10 of food chain controls in the number of many
11 other European countries, the fact that
12 there is not active surveillance in many of
13 the countries and the concern about the
14 potential for suppressing of some reports,
15 they now have information about what we
16 don't know and the level of concern remains.

17 So, the question we asked
18 ourselves was would there be any risk to the
19 Red Cross in changing these criteria to be
20 less strict and all other risk is
21 theoretical and minuscule. The feeling was
22 if asked the question, there might be an

1 increase. So, for the time being, we are
2 not changing our deferral criteria for six
3 months in the rest of Europe.

4 Next slide. Now I want to review
5 our experience in donor deferrals, blood
6 actually collected versus our plan or our
7 goal, and then also I have data on our blood
8 distribution, levels to hospitals, and our
9 inventory levels. I will update it based
10 upon some questions with some overheads at
11 the end.

12 Next slide. We implemented our
13 most strict deferral criteria on
14 October 15th, 2001. This is a chart of
15 daily deferral percents for all American Red
16 Cross blood centers, all 36 of them, and it
17 is deferrals specific to variant CJD. You
18 can see that from the deferral implemented a
19 while ago, it is less than a 10th of a
20 percent. That was due to more than six
21 months in the U.K. or receipt of bovine
22 insulin, and on October 15th, it went up to

1 about 1 percent per day when we went to only
2 three months in the U.K. and six months for
3 the rest of Europe. So, it averaged about 1
4 percent after we implemented it.

5 The next slide is the same except
6 by week, which goes from prior to
7 October 15th up into the end of March of
8 this year, and you can see that there is
9 culling. In other words, donors get the
10 message that they will be deferred and don't
11 come and show up in the first place, or when
12 they arrive at the blood mobile there may be
13 a sign that educates them about the deferral
14 criteria and they don't even sign up or
15 register so they aren't counted.

16 So, the deferral data I'm showing
17 you do not count the people who know not to
18 come in the first place or the people who
19 show up but don't sign in. So, the
20 deferrals are an underestimate of the loss
21 of productive donors to us. The amount of
22 that we are not able to quantitate.

1 Next slide. There has been
2 mention already about differences in various
3 parts of the country, and coastal cities may
4 have a higher deferral rate in our 36
5 regions. I do have the data -- I can show
6 you for all if you want, but we had a range
7 implemented immediately after October 15th,
8 one that went from .2 percent to a high in
9 one region of 1.45 percent. That has now
10 come down to .25 to 1.15 percent in March of
11 this year with partial culling.

12 As to the actual number of donors
13 registered but deferred and lost per month,
14 they are in the right-hand column.
15 Beforehand they were 360; immediately after
16 October 15th, there were 5600 per month.
17 Red Cross collects about a half million
18 every month, as you'll see shortly, and that
19 has dropped down to about 3700 per month.

20 Next slide. This is the first two
21 of four similar graphs.

22 This goes back to January of the

1 year 2000, and the top one is the deferral
2 rate, all presenting allogeneic donors;
3 autologous not included. It is by month.

4 Dr. Scott referred to, previously,
5 an almost 5 percent increase in deferral
6 that occurred in August 2000 when Red Cross
7 went from doing the hemoglobin sampling for
8 adequacy of blood and the donor from the ear
9 stick sample to the finger stick sample, and
10 that change resulted in losing almost 5
11 percent of donors.

12 If you look where October 15th
13 in 2001 would be, you see an up for one
14 month, but in the scheme of things you don't
15 see a major change upward in deferral
16 remembering. Again, this doesn't count the
17 people who didn't come and didn't register.

18 The bottom slide here shows in
19 blue our budgeted collection goal for every
20 month. Primarily, it differs from month to
21 month, dependent upon the length of the
22 month and the number of weekends and

1 holidays, that ongoing patient needs every
2 weekday remain about the same year round.

3 In red is our actual collections.
4 You can see that we did pretty well. The
5 big bump, or the peak in the red, is
6 September and October of 2001 after
7 September 11th, and the drop thereafter in
8 December and January -- below goal.

9 While January is often a difficult
10 month as is December because of the
11 holidays, we believe that there was a lot of
12 negativism in the American public about the
13 outdateding of blood donations and blood
14 donations not used after September 11th, and
15 there was a fair amount of media publicity
16 of that, and that's what we attributed to
17 January. Since then, up through April we've
18 done pretty well, and I will show more data
19 on that.

20 The next slide shows distribution.
21 This is the number of red cell units we
22 distributed by month to all the hospitals

1 served in our 36 regions, and you can see
2 that that varies a bit. If you look at
3 September of 01, it's down, probably because
4 the number of hospitals were collecting
5 their own blood. And with the excess blood
6 collected after September 11th, blood was
7 readily available from a number of sources,
8 and less was requested of Red Cross during
9 that period.

10 Since then, however, I think you
11 can see that our distributions, which
12 reflect transfusions, had gone up every
13 month for awhile -- may be leveling off
14 again, but part of the reason for the
15 shortage, we believe, is an increase in
16 transfusion usage by patient. So, we have
17 other data that is consistent with that.

18 Now, if you look at the average
19 daily inventory of red cells in our Red
20 Cross blood centers, which does not include
21 the blood in the hospitals, you can see that
22 in the year 2000 we had as low as 50,000 on

1 an average for the month during the summer,
2 which is low, at a time when we were on
3 appeal and doing a number of other things.

4 The subsequent summer of '01,
5 prior to September 11th, we spent a lot of
6 money on paid advertising, which did help a
7 little, but it was very expensive, and that
8 summer was not as bad as previous summers
9 had been. You see the increase in
10 inventory. That went up to 300,000 after
11 September 11, and you see that as that
12 outdated and donations didn't pick up again
13 afterward that the inventory has gone down.

14 Up through May it remains at a
15 higher rate than May in previous years.
16 However, I will show you an overhead that
17 shows you that it's tanked since then.

18 Next slide. This is the last in
19 the PowerPoint presentation. I think this
20 data suggests that when anticipated and
21 planned for, new donor deferral criteria can
22 be accommodated by intense, expensive, and

1 vigorous donor recruitment efforts, which I
2 think we have all engaged in. After the
3 increase in deferrals ----, there is culling
4 and the deferral rate drops. We also have
5 noticed that with implementation of new
6 tests. The people who are ineligible are
7 deferred and don't come back. So, the rate
8 of those who come is lower.

9 But the point to emphasize is that
10 we need more regular volunteer blood
11 donations, and we still need them to prevent
12 seasonal shortages which we're facing now.
13 I will just try to show two overheads which
14 give more recent data in that regard, if I
15 can figure out how to do this.

16 The first overhead will be our
17 inventory levels by week, which is updated,
18 and then the other one will be our projected
19 inventory. In Red Cross we have blood
20 mobiles scheduled out up to six months, and
21 we renew or refine those schedules and
22 project units that all the schools,

1 colleges, companies, and factories that we
2 collect at so we can project how much we
3 expect in the upcoming period.

4 This, however, is our inventory
5 that goes back about a year, and it shows
6 that after 9-11, the inventory shot up and
7 then it drifted downwards. Not shown in my
8 PowerPoint presentation is that the
9 inventory has now more recently -- and this
10 goes up to June 24 of this year -- it has
11 dropped down. It's down to levels of the
12 summer of '01 before.

13 So, as I think Dr. Jones said, you
14 have enough blood today. But the concern is
15 in the upcoming periods, particularly with
16 the July 4th weekend.

17 So, utilizing our current
18 inventory, our projected hospital usage, and
19 our scheduled and projected blood
20 collections, we show that the inventory next
21 week with the holiday on a Thursday -- which
22 is a difficult time for us -- will decrease

1 and continue downward. The black line is
2 what our inventory was this time last year,
3 which was more stable due to the increased
4 efforts that we had made then.

5 We, too, have made efforts already
6 but I think the entire country and all the
7 blood collectors together are right now
8 trying to initiate a national media appeal
9 for more blood donations to prevent that
10 shortage, which could be quite severe.

11 Thank you. That concludes my
12 remarks.

13 DR. BOLTON: Questions from the
14 committee? Steve?

15 DR. DeARMOND: When we were
16 looking at this issue a year ago, the
17 projection from the American Red Cross
18 was -- I think it was under 10 percent loss
19 of blood supply -- I can't remember -- it
20 was 8 to 10 percent or something like
21 that -- and that the FDA recommendations
22 were the order of 5 percent, which seemed to

1 be a reasonable compromise. But now from
2 your projections, are you going past that 10
3 percent loss of blood supply? Has in
4 reality the deferrals created an even
5 greater loss?

6 DR. PAGE: I don't think that the
7 projected loss now and next week is so much
8 due to deferrals as to people not coming in
9 the first place due to donor apathy, being
10 on vacation, or not coming to the blood
11 mobile. Projection of a deferral loss or a
12 testing loss in advance of implementation
13 has always been difficult.

14 There have been postcard surveys,
15 there have been general surveys, and my
16 personal sense is that they have generally
17 overestimated what the actual accountable
18 deferral or test loss was. In part, I think
19 that's because word gets out and people who
20 think they're going to be deferred don't
21 come at all.

22 The problem is people who think

1 they may be deferred and don't come might
2 really be eligible. So, I think the loss of
3 who doesn't come is the greatest effect, and
4 our problem now is people not coming to
5 donate, that we need eligible people to
6 appreciate the need.

7 DR. BOLTON: I'm sorry you took
8 down the overhead because I have a question
9 about that. On your second overhead --
10 that's okay, we'll do it from memory -- on
11 your second overhead you're projecting into
12 the future a significant drop in
13 collections. Yet, if you look at your
14 previous year's collection rate throughout
15 the summer, it was pretty constant and even
16 slightly increasing. So, what's the basis
17 for which you have the projection for
18 decreased rate of collection?

19 DR. PAGE: This slide that you
20 refer to is not collections; it's inventory.
21 So while it includes the effect of decrease
22 in collections, it also includes defective

1 increase in transfusions, which are referred
2 to or mentioned.

3 DR. BOLTON: But the question
4 still pertains. Your previous year's
5 experience would indicate that the trend
6 goes in the other way.

7 DR. PAGE: In the previous year we
8 spent a great effort in donor recruitment
9 with national mailings in tens of millions
10 and with tens of millions of dollars in paid
11 advertising, which had a minimal hub full
12 effect. We are continuing to do a number of
13 measures but not spending that much money
14 now. I think as Dr. Jones alluded to, the
15 word "world" may be a different place now
16 and there may be some post-9-11 apathy and
17 concern about every drop of blood or every
18 drop of red cells not being used.

19 DR. BOLTON: So, your analysis of
20 your advertising experience last year was
21 that it was really not cost effective.

22 DR. PAGE: It was minimally

1 effective but not cost effective in the
2 scheme of things. Having government company
3 university leaders espousing importance of
4 donating and providing the opportunity for
5 their staff or their students is more
6 important and something that is challenging
7 but we continue to pursue.

8 DR. BOLTON: Other questions?

9 THE WITNESS: Allen Williams, CBER
10 Office of Blood. Peter, thanks for
11 compiling and presenting this data. I think
12 they're very useful in trying to understand
13 the dynamics of something like this.

14 One question: In your handout you
15 had some of the regional data, and if you
16 look at the range for approximately the last
17 quarter of '01, the difference between the
18 low and the high in the range is about
19 seven-fold. Now, we anticipated a higher
20 rate of deferral in the coastal areas
21 because of travel.

22 We understood there would be a

1 fair amount of military-related deferral,
2 but we didn't know quite what the
3 dislocations might be related to the
4 military deferrals, and we're getting
5 anecdotes suggesting that the Carolinas and
6 Georgia in some areas are being hit hard.
7 Could you comment within the Red Cross
8 system your observations?

9 DR. PAGE: Yeah, I have that data
10 but I didn't project it. I have it on an
11 overhead, but Alan is correct, it is very
12 different amongst regions. The highest
13 deferral rates for us were in the Norfolk,
14 Virginia area and in Alabama, where we have
15 high military collections.

16 We don't have that great a
17 percentage of collections in others. Each
18 deep set of three bars is one region, and on
19 the left in purple is the northeast. The
20 north central is in yellow. South central
21 is next in white or light gray, and the
22 orange is out in the west. So, I think

1 you'll see a difference amongst regions.

2 The smaller bar in the beginning
3 is March of '01 before our October
4 implementation. The next one is March
5 of '02, a year later, comparing month to
6 month a year apart, unaffected by recent
7 deferral changes, and the back one is the
8 highest immediately after October 15th.

9 To my surprise, our greater
10 Washington, D.C., metropolitan area region,
11 which is headquartered in Baltimore but
12 includes Washington, D.C. and some of
13 Virginia, was not amongst the highest. I've
14 learned that that was one of several regions
15 that did more than others in pre-educating
16 donors at the site, that they would be
17 deferred if they had traveled in Europe for
18 these periods in time. So, they weren't
19 registered or weren't even counted. So, a
20 major factor in interregional differences
21 is, I think, the operation or management
22 practice differences in those donor

1 recruiters about pre-educating people.

2 DR. BOLTON: Other questions? I
3 have one. I'm curious. This is perhaps a
4 glass-half-full versus glass-half-empty
5 question, but there seems to be a lot of
6 focus on deferrals, and it can be quite
7 obvious and dramatic the increase in
8 deferrals when you look at the before and
9 after the implementation of the guidelines.
10 But, in fact, the collections don't seem to
11 be affected that much, and as I discussed
12 previously, the inventory experience at
13 least has not been dramatically affected.
14 Are you using -- do you use the deferral as
15 an early warning, or is this -- I mean,
16 obviously you're sensitized to that, but a
17 one-percent increase in deferral rate due to
18 vCJD criteria can be easily overcome by a
19 few percent increase in traffic in, is that
20 not right?

21 DR. PAGE: With advanced planning,
22 and I would quibble with your use of the

1 word "easily." Donor equipment is not easy.

2 DR. BOLTON: Yeah, I withdraw the
3 word "easily."

4 DR. PAGE: Yeah. With notice. I
5 think part of -- the summer is traditionally
6 a difficult period. We collect up to 20
7 percent of our donations from high school
8 and college students, and we collect when we
9 drive our truck there and offload and
10 collect in the auditorium a large number of
11 people at once. We can't go there in the
12 summer because they're not there.

13 So, that's 20 percent that we have
14 to try harder to get from somewhere else
15 amongst busy people who are on vacation as
16 well. Deferrals are what we can count but
17 blood collections are what really matter,
18 and those are not meeting goal now, and our
19 projections are that they will be not
20 meeting goal in the upcoming months either.

21 DR. JONES: I'd like the
22 opportunity just to reiterate the point that

1 the on-site deferrals are just the bare tip
2 of the iceberg of what the impact of
3 deferrals is, and with the people who aren't
4 showing up in the perceived notion that one
5 would be deferred I think keeps more people
6 away than we can measure, No. 1, but a much
7 larger number than just what we see on-site.
8 That's our experience. That's Peter's
9 experience. I'm sure Celso will be the
10 same. Collections have been dropping of
11 dramatically since June 1st.

12 DR. PAGE: Yeah, collections from
13 those who implemented deferrals are dropping
14 June 1 perhaps due to new deferrals but also
15 because of the traditional summer problem.
16 Red Cross had no change in deferral criteria
17 June 1, but our collections are lower now
18 than in May.

19 DR. BOLTON: I think that it's
20 going to take some time to discern which of
21 the many factors are responsible for those
22 drops, and I just want to be careful that

1 the committee and the public don't take away
2 the impression that these are solely due to
3 variant CJD deferral criteria.

4 DR. PAGE: However, there could be
5 concern that if there is more BSE or variant
6 CJD in other countries in the future if
7 similar practices are engaged that
8 accumulative ads could only hurt.

9 MS. KENNEDY: I have a question.
10 Good morning, Moia Kennedy with ----.

11 DR. BOLTON: Did you identify
12 yourself?

13 MS. KENNEDY: Yes, I did, Moia
14 Kennedy. I have a question. This may sound
15 a little ignorant, maybe my brain is still
16 asleep. But when you're talking European
17 deferrals, are you referring totally to
18 Americans visiting Europe or have European
19 countries traditionally donated -- the
20 people, the European citizens, traditionally
21 donated to the United States?

22 DR. PAGE: The deferral criteria

1 don't relate to citizenship or place of
2 birth -- accumulative number of months spent
3 in the U.K. or in other countries of Europe.

4 MS. KENNEDY: Okay, but I guess my
5 question was: In the past, have Europeans
6 donated and that has been imported into the
7 United States?

8 DR. PAGE: My understanding is
9 that in Europe the number of volunteer whole
10 blood donations per hundred thousand
11 population is much higher than it is in the
12 United States and that within the United
13 States it's higher in rural areas than it is
14 in urban.

15 MS. KENNEDY: But has European
16 blood companies --

17 DR. BOLTON: I think we're going
18 to move on. This is not a question that's
19 directly relevant to the committee in
20 deliberations at this time.

21 MS. KENNEDY: Thank you.

22 DR. BOLTON: Would you like to

1 make a statement? Introduce yourself,
2 please.

3 DR. WARWICK: I'm Ruth Warwick,
4 National Blood Service --

5 DR. BOLTON: Turn the microphone
6 up, please. Please stand closer to the
7 microphone.

8 DR. WARWICK: Ruth Warwick,
9 National Blood Service, U.K. I wonder if I
10 can just comment on the discussion that I've
11 heard, which is that what the U.S. is
12 experiencing now may be the beginning of
13 what will be something that will be much
14 more of a crisis in due course. If I may
15 give a little bit of the experience in the
16 U.K., where we are anticipating that we may
17 defer donors who have previously been
18 transfused, and obviously the impact of that
19 in the U.K. will be much greater than it
20 would be in the U.S. Secondly, we are
21 anticipating the impact that a test for
22 variant CJD may have on the donor

1 population.

2 With the first aspect, the donor
3 deferral for transfusion in the U.K., we
4 anticipate that may be between 10 and 15
5 percent. We haven't got surveys to show
6 that, but that's what we are anticipating,
7 and with the introduction of a test we
8 anticipate the donor deferral may be as high
9 as about 50 percent because donors may not
10 wish to be tested or to know the results of
11 tests in the current climate.

12 I give that as a background
13 because there had to be, obviously, a much
14 more stringent approach to having adequate
15 supplies for blood transfusion for those
16 recipients that really need it. We haven't
17 just looked at increasing the donor supply,
18 but we've looked at the other end of the
19 chain, which is improving usage, and that
20 was what I wanted to comment on, but I had
21 to give the breakdown to understand where I
22 was coming from.

1 One of the things that we are
2 having to considerably do is to educate
3 users to make sure that blood is used
4 appropriately, because there is considerable
5 variation in practice, and there's a huge
6 literature in the United States showing that
7 there is poor appropriateness of transition
8 therapies of all sorts, particularly ----
9 huge variations. Changes in practice
10 promoted by the FDA to the users might make
11 a very dramatic effect on the converging
12 between the donor availability and the usage
13 of that ---- aspect.

14 We are also having to encourage
15 the use of autologous but not in redeposit
16 but in increasing the use of self-salvage in
17 those operations where that's feasible.
18 That's particularly in cardiac surgery,
19 orthopedic procedures, and many others that
20 you will be able to think of.

21 All of these can be improved
22 further by very stringent audit to ensure

1 that best practice is implemented. I think
2 that even in the United States perhaps a
3 very more long-term view and strategic view
4 is what needs to be taken on board, not just
5 donor acquisition.

6 The other aspect, of course, is
7 that if we know there are risks associated
8 with therapy by transfusion of all sorts,
9 then they become the liability issues to be
10 considered because inappropriate transfusion
11 having a transmitted infection of any sort
12 of course cannot be defended.

13 Thank you.

14 DR. BOLTON: Thank you very much.
15 I think that's an important warning, if you
16 will, to the blood collectors and the users
17 of blood, that we don't in fact know what
18 the future holds. Our primary aim in
19 recommending the deferrals is to prevent an
20 epidemic of variant CJD in this country.
21 It's not necessarily to prevent a single
22 case but to prevent epidemic spread. But we

1 don't know what the experience will be in
2 the U.K., and we are sort of preemptively
3 trying to reduce our risk to the minimum
4 acceptable while maintaining an acceptable
5 level of blood.

6 Obviously, if the situation
7 worsens we will need to look very carefully
8 at being more efficient in the use of blood
9 as well as in the collection of blood. So,
10 I think those words were very important to
11 hear.

12 Yes, Dr. Linden.

13 DR. LINDEN: I just wouldn't want
14 to leave the impression that that's not
15 already being done. I know in New York we
16 just sent out some guidelines about blood
17 conservation. The utilization review
18 committees are very active. This is already
19 being done to try to maximize blood usage to
20 be appropriate and not be excessive, so
21 that's already being done.

22 DR. BOLTON: Excellent.

1 DR. LINDEN: But I agree it's an
2 important issue.

3 DR. BOLTON: Dr. Bailar and then
4 we'll move on.

5 DR. BAILAR: What's the delay
6 here? If this committee recommends a change
7 in policy on day X, how long would it take
8 for that to show up and increase donations?
9 Are we talking about three months, six
10 months, a year?

11 DR. BOLTON: Steve, would you like
12 to comment?

13 DR. NIGHTINGALE: Eighteen
14 minimum, absolute minimum -- 36 if it's
15 accepted.

16 DR. BOLTON: Thirty-six. You mean
17 in terms of getting something into
18 regulation. Or are you talking about an
19 impact on the blood supply?

20 DR. NIGHTINGALE: Door to door.

21 DR. PAGE: Hopefully --

22 DR. BOLTON: Steve, was it up 18

1 to 36 months we're talking about?

2 DR. NIGHTINGALE: Yes.

3 DR. BOLTON: I'm not sure -- maybe
4 that's not addressing Dr. Bailar's question.

5 DR. NIGHTINGALE: I'm sorry, since
6 time is an issue I tried to give you my best
7 guess without all the embellishments. As I
8 believe this committee knows, I can go on at
9 some length but I don't think they want me
10 to do so right now.

11 DR. BOLTON: Jay, maybe you have a
12 different point of view.

13 The microphone, please.

14 MR. EPSTEIN: It's a simple and
15 direct question, but it's not a simple
16 answer because everything depends on what
17 exactly is done. You know, on
18 September 11th, the agency issued urgent
19 guidance within 12 hours. On the other
20 hand, it can take upward of six years to do
21 regulations. So, the question is what's the
22 situation? What's the remedy? If we're

1 talking about new federal dollars then, you
2 know, we have to get a budget proposed that
3 contains the item. We have to get an
4 appropriation. Perhaps that means a new
5 program infrastructure. If you're simply
6 talking about public service announcements,
7 well, then the question is who are you
8 trying to commit?

9 If you're looking for certain
10 public officials, you have to get the issue
11 up onto their radar screen, you know, then
12 you need a process. So, I think -- you
13 know, we could answer the question if we
14 were talking about a specific measure, but
15 to say what would a decision here or a
16 statement here do directly, that's unclear.
17 I mean, will the media cover today's
18 proceeding; will it be a big splash, a
19 little splash; exactly what is the message
20 that gets communicated?

21 I mean, there are just too many
22 variables to answer the question. We could

1 answer it we were talking about concrete
2 steps.

3 DR. BAILAR: What I'm hearing in
4 general is that there's absolutely nothing
5 this committee can do about this year's
6 summer slump, probably not next year's
7 either.

8 DR. BOLTON: No, I couldn't --
9 maybe that's a little too pessimistic but
10 we'll see.

11 At this point, we're going to move
12 on though. Thank you, Dr. Page. Our next
13 speaker is Dr. Celso Bianco from America's
14 Blood Centers.

15 DR. BIANCO: Thank you. It's
16 important that I explain that America's
17 Blood Centers is a national network of
18 locally controlled not-for-profit community
19 blood centers that provide nearly half of
20 the U.S. blood supply from volunteer donors.
21 Collectively we operate in 45 states and
22 serve more than half of the nation's 6,000

1 hospitals.

2 America's Blood Centers' total
3 blood collections exceeded 7 million
4 donations in 2001. FDA has asked us to
5 comment on the impact of implementation of
6 the extended donor deferrals for vCJD on
7 May 31st, and we conducted a survey of
8 our 74 U.S. member centers in the past two
9 weeks.

10 Obviously, the period since
11 implementation is short for a precise
12 assessment. However, we obtained enough
13 information to indicate that the impact will
14 not be trivial. We excluded Héma-Québec,
15 our Canadian member, from the survey,
16 because these members' implementation dates
17 and criteria vary from those recommended by
18 FDA. All 74 ABC members in the U.S.
19 implemented the extended vCJD deferrals of
20 May 31st with no exceptions.

21 Could I have the next slide.

22 Thirty-one of or 42 percent of the centers,

1 implemented only Phase 1 of the deferrals.
2 However, 43 -- that is the two that you
3 see -- that implemented in April -- plus
4 the 41 here -- implemented both Phase 1 and
5 Phase 2. There is the Pan-European
6 deferrals at the same time.

7 The major reason for this approach
8 was to avoid two rounds of modification of
9 standard operating procedures, retraining
10 staff, reprinting donor information sheets
11 and registration forms. In general, this
12 approach was adopted by centers that
13 believed that the additional impact of the
14 Pan-European deferrals would be relatively
15 small.

16 The next slide, please. This next
17 figure shows the aggregate number of units
18 collected by ABC member centers. They are
19 under Phase 1, and that's essentially a
20 hundred percent or about 7.2 million units a
21 year are under Phase 1 but, as you see,
22 about 4.2 million of the 7.2 million are

1 also using the criteria for Phase 2.

2 The average percent of donors
3 deferred for travel related to vCJD
4 increased -- the next slide please -- oh,
5 it's here -- from about .1 percent, that was
6 the average in 2001, to 1.4 percent in
7 June 2002. The range of deferrals in 2002
8 vary from .3 to 4.6 percent.

9 I should emphasize that these
10 deferrals occurred at pre-donation medical
11 history. Unfortunately, we are unable to
12 capture the data that would allow us to
13 measure the number of potential donors who
14 learned about the deferrals through the
15 media or information provided by the blood
16 centers and did not show up to donate.

17 However, we have many anecdotal
18 reports from our members, leading us to
19 believe that this is not an insignificant
20 number of donors and may be equal to or
21 larger than the numbers of donors that are
22 deferred at the donor sites. Our largest