

1 finish. Next one please.

2 This is the distribution of months when  
3 the first data become available. There were a  
4 number of centers that provided data beginning in  
5 October and then there were a splattering of others  
6 that provided data as time goes on. The maximum  
7 number of centers I think that we have data from at  
8 the present time or at least through the month of  
9 April is 25. Next one. Next slide.

10 This is the take home message, the  
11 bottom line from the data we've been collecting.  
12 Number one, there's no macro effect. The data are  
13 not sufficient to consider the possibility of minor  
14 effects or minor regional effects. Unfortunately  
15 there are a few data before and after implementation  
16 and implementation was staggered among the blood  
17 centers that were studied and there were a few  
18 seasonal effects. The next slide.

19 This one shows the number of red cells  
20 that were released. These are units of blood, not  
21 what was collected, but what was released for use.  
22 This is the available blood supply and the losses  
23 are already taken out here.\* Some of those losses I  
24 think will be discussed in a minute. These are  
25 total because O positive and O negative are almost

1 always in short supply everywhere. We've got those  
2 scattered on here. As you can see, there's no  
3 particular trend and most years I think there tends  
4 to be a dropoff in November, December and January, a  
5 beginning increase and here you have the March  
6 increase that is common. Next one please.

7 This is the inventory. These are  
8 inventories that are collected on the first and  
9 third Wednesday of each month so that they will be  
10 spot checked as they come along. I should have  
11 mentioned earlier that although there are different  
12 centers represented at each one of these points, I  
13 have normalized the data to the maximum number of  
14 centers that provided that kind of data. So there  
15 presumably reasonably comparable within the confines  
16 of ability of that kind of extrapolation. There  
17 were relatively few centers done in this area. So  
18 I'm not sure that I believe those figures and these  
19 don't show any particular trend. Next one please.

20 In order to try and look at the before  
21 and after, I took an average of the release for  
22 distribution of red cell products over the entire  
23 time that a particular center provided information.  
24 I then took each month as a percentage of that  
25 average so that five months before they implemented,

1 11 centers collected 102 percent or released for  
2 distribution 102 percent of the average for the  
3 entire period of time. The mean before was 100  
4 percent. The mean after was 99.2 percent and I  
5 don't think that one can make much of a trend out of  
6 that. This one which looks like it may be lower  
7 represents only two centers. So I wouldn't place a  
8 lot of value on that. This information is graphed  
9 on the next slide, and although it looks as if it's  
10 going down, I think it's probably at the present  
11 point fluctuating. We'll continue to look at this  
12 as time goes on. Next one.

13 It was I think a year ago when this was  
14 discussed at this committee meeting. It was pointed  
15 out by one or two discussants that the apheresis  
16 platelet supply would be more effected than the  
17 whole blood supply. We are collecting data on the  
18 release of apheresis platelet products each month.  
19 These are the data normalized to 22 centers that  
20 provided the information and that information is  
21 graphed on the next slide and you can see there's  
22 really no particular trend in the available of  
23 platelets either. Actually the majority of people,  
24 as you will recall from an earlier slide,  
25 implemented the UK deferral in March. So we may not

1 have seen the entire effect of it yet. I think  
2 that's the last one. Thank you.

3 DR. BROWN: Continuing this same  
4 subject, Marian Sullivan will now tell us about the  
5 effect of UK deferral data on the blood supply.

6 DR. SULLIVAN: Good afternoon. As you  
7 heard from Dr. McCurdy, the National Blood Data  
8 Resource Center in cooperation with the National  
9 Heart, Lung and Blood Institute recently began the  
10 collection of monthly data from a sample of U.S.  
11 Blood Centers primarily to allow the timely  
12 monitoring of the blood supply.

13 In addition to the supply related  
14 information that we're collecting for NHLBI, we  
15 recognized a well-timed opportunity to capture data  
16 regarding the deferral of donors with a history of  
17 travel to or residence in the UK immediately  
18 following implementation and over time. These are  
19 the data that I will present today.

20 In addition, 26 Blood Centers, an  
21 enhanced stratified random sample of U.S. Blood  
22 Centers were invited to participate with modest  
23 compensation. The sample \*is representative of all  
24 Blood Centers which collect at least 25,000 units of  
25 whole blood annually. Despite the size of the

1 sample, it represents 34 percent of national monthly  
2 Blood Center whole blood collections. Operational  
3 data submitted monthly to the NBDRC by the 10th day  
4 of the subsequent month and at this point, the data  
5 base covers the period from October 1999 through  
6 April 2000.

7 This slide illustrates the catchment or  
8 collection area for all of the Centers in the  
9 sample.

10 To further characterize the sample with  
11 respect to the percent of first time donors, the  
12 median is 19.7 which is just below the national  
13 average and the range extends from six to 55  
14 percent. And the median of the donation interval  
15 between donations for repeat whole blood donors is  
16 180 days or two donations per year.

17 This graph illustrates the distribution  
18 of the month of implementation of the UK travel  
19 deferral for the 26 Centers in the sample. As you  
20 can see, although there are a few Centers  
21 implemented immediately after the recommendation in  
22 August of last year, more than 50 percent  
23 implemented in either March or April of this year.

24 The cumulative deferrals for the sample  
25 are shown on this slide building from a total of 286

1 in October to a total of 2,500 exactly, not rounded,  
2 by the end of April.

3 The UK deferral data that we have  
4 collected thus far represent 57 total Center months  
5 of deferral. For example, if Center A reported  
6 referral data for four months and Center B for six  
7 months, together they total 10 Center months of  
8 deferral.

9 The total number of donors deferred as  
10 we saw is 2,500. The total whole blood collections  
11 for the 57 Center months for which we have deferral  
12 data were 746,433. If we calculate deferrals as a  
13 percent of whole blood collections overall, we come  
14 up with a 0.33 percent and this ranged between  
15 Centers from a low of 0.4 percent to a maximum of  
16 0.95 percent.

17 The Blood Centers were asked to provide  
18 a breakdown of deferred donors by whole blood versus  
19 apheresis. Only 11 of the Centers has managed to do  
20 this. Of the 2,500 deferrals, 1,290 were whole  
21 blood donors, 57 were apheresis donors, primarily  
22 platelet apheresis we can assume and the remaining  
23 1,153 were unspecified and will be treated as whole  
24 blood donors in this analysis.

25 Similarly, only 11 of the Centers were

1 able to distinguish first time from repeat donors.  
2 Of the 1,290 whole blood donors deferred, 425 were  
3 reported as first time, 865 is repeat and again  
4 1,153 were not specified and will be treated as  
5 first time donors in the analysis.

6 We prepared a geographic analysis of  
7 deferrals overall by collapsing some of the U.S.  
8 Public Health Service regions, the standard  
9 breakdown of the 10 regions. We have collapsed the  
10 New England and Mid-Atlantic Region to create a  
11 Northeast Region with an overall deferral rate of  
12 0.31 percent. The Mid-Atlantic region has been  
13 untouched and has an overall rate of 0.41 percent.  
14 East North Central and West North Central were  
15 collapsed, have the lowest rate, 0.13 percent.  
16 Similarly, East South Central and West South  
17 Central, the combined rate 0.48 percent and the  
18 Pacific and Mountain areas combined have a deferral  
19 percentage of 0.29 percent.

20 The only difference between regions  
21 that's statistically significant, between the  
22 Northeast and the South Central, the pi of 0.3, but  
23 there are a lot of factors that can affect this and  
24 probably best not to read too much into that. Okay.

25 The monthly deferral for each Center

1 will vary somewhat with the time elapsed post  
2 implementation. Plotted on this slide are the  
3 donors deferred per 1,000 donations for the first 30  
4 days post implementation, the next 30 days and so  
5 on. This pattern will continue to develop as many  
6 of the centers have only just completed the one or  
7 two months of deferral and will be influenced  
8 strongly by first time donor rates at the centers as  
9 well as other factors.

10 I have made an approximation of the  
11 minimum number of components lost annually as a  
12 result of the deferral of just these 2500 donors.  
13 the 57 apheresis donors would be expected to donate  
14 and average of 12 times per cent and on the average,  
15 each platelet apheresis unit provides the equivalent  
16 of six units of platelet concentrates resulting in  
17 4,104 platelet units.

18 865 repeat whole blood donors that date  
19 on an average for our sample twice per year times  
20 1.8 components processed from each whole blood unit.  
21 Now this factor is based on our 1997 database from  
22 the Nationwide Blood Bank and Utilization Survey and  
23 it's a little lower than what is typically given,  
24 but it may be a little low for many of the  
25 individual Blood Centers, but overall, the national

1 average I believe that 1.8 is the more accurate  
2 factor to use here. So that's 1.8 components  
3 processed from each whole blood unit, would yield  
4 3,114 components.

5 First time donors at a minimum, if  
6 they're successful may donate only once resulting in  
7 765 component units from the 425 donors.

8 And the unspecified donors we have to  
9 assume are first time whole blood donors would yield  
10 at least 2,075 additional components for a minimum  
11 total number of components lost before laboratory  
12 screening of 10,058. This would be about 1.2  
13 percent of the total number of components expected  
14 to be generated annually by this sample of Blood  
15 Centers. That would be about 8.5 million components  
16 absent any additional deferrals that these Centers  
17 will experience over the remainder of deferral year  
18 one.

19 Okay. Just as there were limitations on  
20 the REDS survey data that had been presented to  
21 estimate potential deferral loss, so too there are  
22 limitations on the actual on-site deferral data that  
23 I have presented. Most importantly there has been  
24 to my knowledge no assessment of self-deferrals  
25 which are likely to be considerable given the media

1 attention to this issue and preinterview materials  
2 and even letters distributed by many Blood Centers.

3 The breakdown of total deferred donors  
4 for apheresis and repeat whole blood donors is  
5 incomplete and may result in an underestimate of  
6 product loss. And our Blood Center sample may not  
7 be representative of other U.S. Blood Centers with  
8 respect to this particular donor characteristic.

9 In conclusion, we've seen a total of  
10 2,500 donors were deferred at 26 Blood Centers  
11 between October and April, that repeat donors  
12 account for two-thirds of whole blood donors  
13 deferred and we suggest that the discrepancy between  
14 expected and actual on-site deferrals may indicate  
15 the substantial self-deferral is occurring.

16 I'd like to acknowledge those  
17 individuals who are contributing to the collection  
18 and analysis of the monthly monitoring data from the  
19 NBDRC, the NHLBI and at all of the participating  
20 Blood Centers in the sample. Thank you.

21 DR. BROWN: Thank you very much, Marian.  
22 We have now come to that moment when the grand  
23 public has an opportunity to comment, and we have at  
24 least four individuals, two are deferred from an  
25 earlier time period. So perhaps we can hear from

1       them in turn now.  Either Kay Gregory or Dr.  
2       Christopher Healey, whoever wishes to speak first.

3               MS. GREGORY:  Thank you.  Let me tell  
4       you first a little bit about the American  
5       Association of Blood Banks.  It's a professional  
6       society for over 9,000 individuals involved in blood  
7       banking and transfusion management and represents  
8       roughly 2,200 institutional members, including  
9       community and Red Cross blood collection centers,  
10      hospital based blood banks, and transfusion services  
11      as they collect, process, distribute, and transfuse  
12      blood and blood components and hematopoietic stem  
13      cells.  Our members are responsible for virtually  
14      all of the blood collected and more than 80 percent  
15      of the blood transfused in this country.  For over  
16      50 years, the AABB's highest priority has been to  
17      maintain and enhance the safety and availability of  
18      the nation's blood supply.

19              The AABB is grateful for the attention  
20      of the FDA and the TSE Advisory Committee on this  
21      issue.  We have few formal comments to make at this  
22      juncture, having clearly stated in the past our  
23      position on the issue of deferral of donors for  
24      potential BSE exposure.

25              You have just heard the report from the

1 National Blood Data Resource Center on the effect of  
2 the current UK deferral on the national blood  
3 supply. We would like to reiterate the limitations  
4 of this data which NBDRC has already stated. We  
5 believe that substantial self-deferral is not  
6 reflected and will never be reflected in the  
7 deferral statistics.

8 Pre-implementation publicity was  
9 significant. Also many centers provided written  
10 materials or displayed posters to apprise potential  
11 donors of the new deferral criteria before they even  
12 registered to donate. Some centers even sent out  
13 letters to inform donors of the new deferral  
14 criteria so they would not make an unnecessary trip  
15 to donate.

16 Finally, many centers did not implement  
17 the deferral until April and donors who donated  
18 prior to April will not be reflected in the deferral  
19 statistics until they return to try and donate. The  
20 recorded rates of deferral which Marian has  
21 discussed should be understood in this context. We  
22 also remind the Committee that a number of donor  
23 deferrals does not equate to the number of units of  
24 blood. The survey data suggests a disproportionate  
25 loss of frequent repeat donors in the recorded

1 deferrals which only amplifies produce loss  
2 particularly for platelet apheresis.

3 Tomorrow you're going to be discussing  
4 leukoreductions. So I just want to say just a word  
5 about that. Sorry, I got ahead of myself.

6 A recommendation for deferral of donors  
7 from other BSE endemic countries with lower  
8 incidence and prevalence of BSE than the UK, will  
9 necessarily further shrink a marginal blood supply  
10 and complicate the donor screening process.  
11 Although it is not possible to predict the effect  
12 nationwide, we do know that extension of the  
13 deferral can have dire consequences on the adequacy  
14 of the blood supply in the New York metropolitan  
15 area. The New York Blood Center, for example,  
16 collects 150,000 red blood cells a year from sites  
17 under their FDA license but the sites are located in  
18 Holland, Switzerland and Germany.

19 Now let me go on to talk for just a  
20 second about leukoreduction. With regard to  
21 protection of the blood supply from TSEs using  
22 leukoreduction, the data are inadequate to assess  
23 effectiveness. Since, however, universal  
24 leukoreduction is the stated goal of the FDA for  
25 other reasons, the issue is moot from an operational

1       standpoint for blood collection facilities and  
2       transfusion services. However, we request the  
3       Committee, if you find the argument for  
4       leukoreduction for this indication to be credible,  
5       to communicate formally this opinion to the Health  
6       Care Financing Administration as further  
7       justification for upward adjustment of blood  
8       intensive reimbursement rates so that universal  
9       leukoreduction does not represent an unfunded FDA  
10      mandate. Thank you.

11                   DR. BROWN: Thank you, Dr. Healey, and  
12      now Kay Gregory please. That was Kay Gregory. Now  
13      Dr. Healey please.

14                   MR. HEALEY: Thank you for the  
15      opportunity to address you and I appreciate the  
16      title of doctor. However, I am not a doctor but  
17      thank you.

18                   My name is Chris Healey and I'm the  
19      Director of Government Affairs for ABRA. ABRA is  
20      the trade association and standard setting  
21      organization for the source plasma collection  
22      industry. ABRA represents almost 400 plasma  
23      collection companies or plasma collection centers  
24      across the country and responsible for almost 10  
25      million liters of plasma collection in the U.S. each

1 year.

2 Back in February of 1999, we did a quick  
3 donor survey to try and get our hands around what  
4 the impact of the UK donor deferral may be and you  
5 see the data here from this slide. Almost 2,000  
6 donors were surveyed at 12 centers. Almost four  
7 percent indicated that they traveled to the UK since  
8 1980 and almost one percent had said they spent six  
9 months or longer there. The reasons as you see here  
10 are primarily military duty and some leisure travel  
11 as well.

12 After doing this impact assessment, we  
13 went back and tried to see what the actual impact  
14 was and we had some preliminary new data. If you'd  
15 put the next slide please.

16 We went to two companies who implemented  
17 the UK deferral early on. One company, AUC  
18 implemented it back in October and Company B  
19 implemented in January. Although they are only two  
20 companies, they represent more than a quarter of all  
21 the collection centers across the country, Company A  
22 having 50 collection centers that contributed to  
23 these data, and Company B having 67. Company A was  
24 able to get some estimate of the potential new donor  
25 loss as a result of the UK deferral criteria and

1 they estimated that to be about 8.5 percent. Some  
2 of the factors that go into this 8.5 percent are  
3 those that Marian Sullivan mentioned and Kay Gregory  
4 mentioned as well, a lot of self-deferral. A number  
5 of source plasma donors are actually telephoned  
6 screened before coming in. So there's a substantial  
7 new donor loss there as well. So we know it's in  
8 this neighborhood but this is not a hard number if  
9 you will.

10 Since implementing in October, Company A  
11 had 132 qualified donors, that is repeat donors,  
12 that were deferred on the basis of the UK deferral  
13 and 6,000 units or prior donations of source plasma  
14 was implicated from those donors. So you see an  
15 average of 45 units implicated per deferral. What's  
16 striking to me about this slide is that Company B  
17 had a substantial similar experience with an average  
18 of 40 units per deferral. They had 22 qualified  
19 donors at 67 centers that were deferred. Next slide  
20 please.

21 So based on those numbers of units  
22 implicated in the deferral, we tried to estimate  
23 what the total loss of donations may be. This is  
24 meant only to be a range. So some of the  
25 assumptions we made here are the 40 to 45 units per

1 deferral or per donor, roughly .5 to 1 percent of  
2 new donor loss. That's based roughly on the .85  
3 percent estimate in new donor loss in the previous  
4 overhead. And then we've estimated that there are  
5 approximately 500,000 to 1,000,000 new donors each  
6 year, that some donors retire their donation  
7 history, their donation life and we get new donors  
8 on. So based on those assumptions and the prior  
9 data, you can see that the lost donations per year  
10 are estimated to be 100,000 to 500,000 and based on  
11 our total collections, we see a loss estimate of 1  
12 to 4.5 percent as a result of the UK deferral. Next  
13 overhead.

14 To put this in a little bit of context,  
15 here's some of the other factors impacting source  
16 plasma supply. We've seen overall a seven percent  
17 loss of new donors from '97 to '99. That's a  
18 surrogate estimate based on use of a deferral  
19 registry that ABRA maintains and it's used to check  
20 new donors for prior deferrals. So we've seen this  
21 trend there. In addition, we've seen collections  
22 down almost 10 percent and Dr. Epstein was kind  
23 enough to tell me it's actually nine percent from 11  
24 million in 1998 to 10 million in 1999. Some of the  
25 reasons they gave were not enough time in scheduling

1 and the length of the process which are issues  
2 unrelated to what's before the Committee, but I  
3 wanted to put the donation loss into context here.

4 That's it. Thank you.

5 DR. BROWN: Thank you very much, Mr.  
6 Healey. I think we have two doctors who are now  
7 scheduled and both from Canada, excuse me, one from  
8 Canada and one from Quebec. The first is Dr. JoAnne  
9 Chiavetta from Canadian Blood, I don't know what the  
10 S stands for here, but in any case, she is the  
11 Canadian representative from perhaps it's the  
12 Canadian Blood Services. Is that close?

13 DR. CHIAVETTA: Yes. I'm JoAnne  
14 Chiavetta, and my talk will be in English.  
15 Basically Hema-Quebec and CBS, we did our surveys  
16 just as you all did in the U.S., and I'll tell you a  
17 little bit about what we find in our deferrals.  
18 Okay. Next slide. I've just got a few words on  
19 each.

20 Basically in CBS, we surveyed 8,000  
21 donors. We have 21.8 percent of our donors say that  
22 they had been in the UK since 1980. Very similar to  
23 the REDS study, we found that there were 2.5 percent  
24 who reported in the survey now, reported more than  
25 six months in the UK. So we calculated our loss

1 based on the survey and we would lose about 17,000  
2 units from the 700,000 that we collect each year.  
3 Next please.

4 So we did a few things to try to  
5 minimize what we expected to be quite a loss. We  
6 sent a letter to all donors telling them about the  
7 UK travel deferral and its implementation and we set  
8 up a toll free number. Next please. Sorry.

9 And then after we did that we began the  
10 deferral on September 30th. The criteria was a  
11 cumulative time of six months or more in any UK  
12 country since 1980. Next.

13 And then we got about 900 or so calls as  
14 a result of that letter, and as it happened, of  
15 those people, we actually got 5,000 calls but I  
16 won't go into that because lots of donors called to  
17 find out how they could get their donor card, but  
18 anyway, when we took the calls that were regarding  
19 the CJD criteria, we actually had to defer 79  
20 percent of those that called in because they did  
21 indeed understand the deferral and were not eligible  
22 to donate at all. And then during our first month  
23 of implementation, just very similar to REDS, we  
24 found that only 1.3 percent of the donors that  
25 finally showed up were deferred based on their

1 travel history. And our deferral rate has dropped  
2 steadily to 0.2 percent by the end of April of this  
3 year. Now obviously people are self-deferring.

4 Next please.

5 We found also, not like our survey, this  
6 proves my survey wrong and that's not so good, but  
7 we found that the deferrals in the clinic were  
8 higher .65 percent of first time donors, whereas in  
9 the survey we found that there was a much higher  
10 rate of long term donors that would have been  
11 deferred. We think, of course, that this is due to  
12 self-deferral. Next please.

13 We basically ended up with 1/12 of the  
14 donor loss that we estimate but the big problem is  
15 that we're worried that not only your people who  
16 should not donate not coming back, but people that  
17 may, you know, may imagine that they're not eligible  
18 based on the UK think or are annoyed at us about the  
19 UK thing, and we're beginning a survey. Next  
20 please.

21 We're beginning a survey where we can  
22 actually look at that, where we're contacting donors  
23 who have lapsed since the deferral survey by phone  
24 and asking them some questions. I don't have those  
25 results yet, but this is for Hema-Quebec.

1                   They also implemented their survey on  
2 the 30th of September, and their deferral was a  
3 little more stringent than ours. Their deferral is  
4 cumulative time of 30 days since 1980. Each of our  
5 services try to salvage as much blood as possible in  
6 our deferral and as it happens, their numbers allow  
7 them to only lose what they hoped wouldn't be  
8 anymore than three percent with a 30 day deferral,  
9 whereas we had to go all the way to six months to  
10 achieve that. Slightly less than three percent I  
11 meant to say.

12                   Okay. So there were three percent of  
13 donors in their survey, and during the first month,  
14 a third of that were actually deferred for UK  
15 travel, and as in CBS and in the U.S., that rate is  
16 dropping and, of course, this suggests that people  
17 are self-deferring. Last slide.

18                   So basically the only concern we have is  
19 that we are losing people because of  
20 misunderstandings and the only way we can find that  
21 out is through the surveillance or the survey that I  
22 mentioned to you to find out what's happening to our  
23 lapsed donors and hopefully the right people are  
24 saying I won't donate and the right people are  
25 saying I will continue. That's all I have to say.

1 DR. BROWN: Thank you, Dr. Chiavetta.  
2 Dr. Marc Germain from Hema-Quebec.

3 DR. GERMAIN: Thank you, Dr. Brown, and  
4 good afternoon. My name is Marc Germain, and yes,  
5 I'm a French Canadian, but this is only a statement  
6 about my ethnic background, not a political  
7 statement whatsoever.

8 I am the co-director of Microbiology and  
9 Epidemiology at Hema-Quebec and today I'm speaking  
10 on behalf of both the Canadian Blood Services and  
11 Hema-Quebec which are the two blood operators in  
12 Canada. What I would like to do is to try and  
13 explain very briefly the way in which the Canadian  
14 transfusion ad agency have tried to assess the  
15 exposure of Canadian blood donors to beef products  
16 originating from the UK but consumed elsewhere,  
17 that's outside of the UK. Obviously this is in the  
18 context of the evolving variant CJD epidemic and  
19 particular with regards to the increasing number of  
20 cases in France.

21 When the decision was made to apply the  
22 deferral criterium for donors who traveled to the  
23 UK, it was assumed that the potential exposure to  
24 BSE was mostly confined to the UK territory simply  
25 because that's where the bulk of the cases of BSE

1 had occurred. However, we were all aware that this  
2 assumption was not totally accurate and that's  
3 because untold quantities of beef and beef products  
4 had been exports from the UK prior to the ban in  
5 1996. However, at that time, no good data existed  
6 to substantiate the level of exposure to UK beef in  
7 other European countries. If I could have the first  
8 overhead.

9 Now since then, we've had access to data  
10 that could help us to define this potential  
11 exposure. This is the data regarding UK exports and  
12 obviously the data can be far more detailed than  
13 that but for the sake of simplicity, I'm only  
14 showing the number of live bovine exports for the  
15 time period mentioned there. And these countries  
16 represents 95 percent of the total UK exports during  
17 that period and Dr. Will went over that material  
18 this morning. So I won't take too much time. But  
19 that did not say much about the actual relative  
20 exposure to British beef in each of these countries  
21 and until very recently, we didn't have any way to  
22 figure out what that exposure could have been but  
23 that's until the French authorities very recently  
24 released some information and some information that  
25 you heard this morning actually, to the effect that

1 prior to the embargo about between five to 10  
2 percent of the beef and beef products eaten in  
3 France came from the UK and it seems that this  
4 information is pretty reliable since it came from  
5 two different sources within the French government.

6 Now obviously other countries also  
7 imported UK beef and we do not know exactly the  
8 extent to which these beef products contributed to  
9 the overall beef consumption in these countries. If  
10 I could have the next overhead please.

11 Now what we try to do is to roughly  
12 estimate this simply by extrapolating the combined  
13 data from the UK exports and also the French data on  
14 internal consumption of these products in trying to  
15 assess the potential exposure in these other  
16 countries. And what we determined is that France  
17 and the Netherlands are the two countries where the  
18 most important potential exposure to UK beef might  
19 have occurred. You recognize the five to 10 percent  
20 figure here for France and for the Netherlands, we  
21 estimate that it may be as high as 17 percent.

22 Now in our analysis we kept only these  
23 two countries, the Netherlands and France, because  
24 they represented the most significant potential  
25 exposure to UK beef and also taken together these

1 countries would represent approximately 80 percent  
2 of the total beef exports from the UK.

3 Using the information from the surveys  
4 that we conducted in early '99, both by CBS and  
5 Hema-Quebec and that you heard about on blood donor  
6 travel habits, we then tried to evaluate the impact  
7 of various deferral criteria, on one hand the number  
8 of donors that would be lost because of these  
9 criteria and also the reduction in the overall  
10 burden of exposure of our donors to beef and beef  
11 products.

12 Now obviously the scenarios can be quite  
13 varied because now we have three countries to look  
14 at simultaneously and you'll see the possibility of  
15 these are quite varied a little bit later. And as  
16 is true with all of these analyses, we have to make  
17 quite a number of assumptions and I don't have time  
18 to go through all of them, but let me point out  
19 maybe the two most important ones if I could have  
20 the next overhead.

21 First we assumed, and this is number  
22 five here, we assumed that the risk of acquiring  
23 vCJD in a country exposed to UK beef, and that's not  
24 new, is directly proportional to the amount of time  
25 spent in that country but it is also discounted by a

1 favor which corresponds to the proportion of the  
2 total beef consumption that was of UK origin. Now  
3 just to give you an example, someone who visited  
4 France for a duration of 10 months would be  
5 considered to have a risk which is equivalent to  
6 someone who visited the UK for one month.

7 Now another important assumption was  
8 that the contribution of homegrown if you wish or  
9 indigenous BSE in countries other than the UK was  
10 considered to be negligible. Now this is not to say  
11 that indigenous BSE does not pose any risk at all,  
12 but it's just to recognized the fact that in  
13 comparison with beef from the UK origin, that this  
14 contribution was minimal. So we didn't include that  
15 in the analysis, and I'll let you read the other  
16 assumptions which are quite self-explanatory. Next  
17 overhead please.

18 Now I don't have time to go through  
19 these details of this analysis and basically it's  
20 the same procedure that you were told about  
21 regarding the American data. I must point out that  
22 in our survey, we had detailed information on each  
23 of the countries that we ~~de~~ decided to look at. In  
24 other words, we knew for a given donor the duration  
25 of time spent in each of these countries for the

1 period at risk.

2 Now I think it's important to point out  
3 some interesting features on this analysis. First,  
4 the current deferral of criteria, and this is one  
5 month for Hema-Quebec and six months for CBS, both  
6 achieve a reduction in the total burden of exposure  
7 which is in the order of 65 percent. It's about the  
8 same. It's almost by chance I should say. It  
9 really depends on which criterium we chose and the  
10 travel habits of our respective donor population.  
11 And that's not something new is the fact that the  
12 impact of any given criterium very much depends on  
13 the travel habits of the population to which it is  
14 applied. For example, in Quebec, if we were to add  
15 to our current deferral criterium the criteria that  
16 people who had traveled to France for six months or  
17 more would be deferred, this would affect  
18 approximately an additional two percent of our  
19 donors and this is listed here, two percent of our  
20 donors and it would reduce the total burden of  
21 exposure to UK beef by almost 20 percent which is  
22 negligible whereas the same criteria for CBS would  
23 only affect half a percent\* of donors but at the same  
24 time the burden of exposure would be reduced by less  
25 than two percent.

♦

1                   Now finally I'd like to remind you that  
2 these numbers are at best rough approximations.  
3 They're based on numerous assumptions. However, I  
4 think they could provide some basis to help in the  
5 decision on any specific course of action with  
6 regards to the evolving nvCJD situation.

7                   In the end, any decision to upgrade the  
8 current criterium will depend on obviously several  
9 factors including the impact on exposure reduction  
10 but more importantly I guess on the capacity of each  
11 blood agency to compensate for yet another loss of  
12 donors and as JoAnne Chiavetta explained to you  
13 earlier, I think it's important to remind everyone  
14 that one of the guiding principals in the decision  
15 to defer donors at risk for BSE exposure was to try  
16 to minimize other potential and quite real risks in  
17 the face of a purely theoretical risk and one of  
18 these real risks being the shortage of blood.  
19 That's all. I want to thank you.

20                   DR. BROWN: Thank you very much. That  
21 actually concludes the -- yes, there's a question  
22 from the floor or a comment. Paul Holland.

23                   DR. HOLLAND: Thank you. Paul Holland,  
24 Sacramento Blood Center. I didn't realize you had  
25 to sign up to speak in the open session. I wanted

1 to make two quick comments and a suggestion.

2 As you've seen, at least I felt  
3 reassured by the data today that there is not a  
4 great deal of increased theoretical risk that is  
5 going to be helped by deferring more donors from  
6 other European countries and the United Kingdom.  
7 Contrary to the numbers, I can tell you from a  
8 regional blood center that traditionally has an  
9 excess of donors and we actually help many other  
10 centers and having put the UK deferral or UK  
11 deferral criteria into place on April 17th, the last  
12 possible moment, we are struggling to maintain our  
13 area blood supply and are having trouble helping  
14 other people.

15 But if you do decide to make some  
16 additional recommendations to the FDA regarding  
17 additional deferrals because of people who have been  
18 to Europe and have been exposed to BSE in those  
19 countries, either from their cattle or from British  
20 beef products, then I would recommend or suggest  
21 that you ask our FDA, our Department of Agriculture  
22 and our Fish and Wildlife Service to get together  
23 and work out what I've called the BBME scale to be  
24 supplemented by the USVME scale. BBME stands for  
25 the British Beef Monthly Equivalent and we work out

•  
**S A G CORP.**

202/797-2525

Washington, D.C.

Fax: 202/797-2525

1 a system whereby we calculate for each country and  
2 for a period of time, the risk of exposure to  
3 British beef or BSE in those cattle, but we should  
4 also supplement this with the US Venison Monthly  
5 Equivalent scale because of the chronic wasting  
6 disease in our elk and deer.

7 My point is, this is going to become  
8 very complex. We are asking important serious  
9 questions of our donors regarding risk of AIDS and  
10 Hepatitis and to dilute that important thing with  
11 now asking about other travel history in other  
12 countries and trying to figure out some measure or  
13 risk theoretical which we're going to diminish by  
14 deferring them, and potentially impacting our blood  
15 supply, I urge you not to make further  
16 recommendations regarding deferring more donors for  
17 this theoretical risk because of travel to other  
18 countries which have far less theoretical risk from  
19 their own cattle or from British beef than from the  
20 impact of the UK deferral. Thank you.

21 DR. BROWN: Thank you, Mr. Holland. Are  
22 there any other comments from the public?

23 In that case, we have about 15 minutes  
24 for discussion before the break and then following  
25 the break, we have about an hour for further

1 discussion and vote.

2 If you've looked at the sheet, there are  
3 about 20 questions we've been asked to respond to,  
4 and therefore what I would like to do after, well,  
5 perhaps the next 15 minutes we can use for general  
6 questions if there are any, and then what I'd like  
7 to do is limit the discussion to each of the three  
8 questions and vote on each of these three questions  
9 after a short discussion focused on those questions.  
10 So that what we'll do now is if you have any  
11 questions at all, now is the time to ask them.  
12 We'll have the break, we'll come back and then we'll  
13 have further discussion and voting as a integrated  
14 procedure rather than just 40 minutes of discussion  
15 and then taking votes on question after question  
16 after question.

17 Any questions from the Committee about  
18 anything they've heard today? Yes.

19 DR. KATZ: Yeah. Paul, you might be the  
20 best person to answer this, but one of the linchpins  
21 of risk assessment that we're all engaged in  
22 mentally here is the incubation period, variant CJD.  
23 The cases that have been reported to date are all in  
24 129 homozygotes and is there not animal data that  
25 would suggest that heterozygotes or other

1 polymorphisms at that site might change the  
2 incubation period? I'm trying to get at, is there  
3 any way that we can take any solace in the  
4 apparently flat epidemic curve in Great Britain?

5 DR. BROWN: I'm not sure I'm the best  
6 person to answer it. If I say bad things, Bob Will  
7 can correct me. There is evidence, a lot of  
8 evidence to indicate that incubation periods in both  
9 naturally or iatrogenically acquired and acquired  
10 CJD are shortened by codon 129 homozygosity. The  
11 fact that 100 percent of patients with new-variant  
12 disease tested have all had a homozygote codon 129,  
13 to me is the single most distressing fact about the  
14 entire outbreak. It could be good news but it could  
15 also be very bad news. The good news would be if  
16 only homozygote genotypes were susceptible. In that  
17 case at a minimum half the British population will  
18 survive.

19 On the other hand, I doubt that there's  
20 going to be an absolute block in the infection by  
21 BSE based on homozygosity and that in due time we  
22 may see heterozygotes and the troubling matter is  
23 that if homozygotes in BSE\* and new-variant truly are  
24 the short incubation period subset, we therefore  
25 might be looking at an extensive and large epidemic

♦

1 when the heterozygotes begin to kick in. And that's  
2 just a plain old fashioned unknown. Bob, you agree  
3 that those are the options and we really can't  
4 predict.

5 DR. WILL: (Nods.)

6 DR. BROWN: Yes. Linda.

7 DR. DETWILER: I was just going to give  
8 an example on sheet, and again I know in cross  
9 species you don't always have the same rules that  
10 apply, but a codon 136, you do have incubation  
11 influence with the valene homozygotes being usually  
12 shorter incubation, allonene homozygotes being  
13 longer, and the heterozygotes being in the middle.  
14 However, at 171 it appears that arginine  
15 homozygotes, right now there's only been one  
16 reported in the world and that was in Japan. And so  
17 in the sheep model, again if you're arginine  
18 homozygote at 171, it appears to at least preclude,  
19 you know, stops clinical disease.

20 DR. BROWN: Bob.

21 DR. WILL: Am I allowed to ask an  
22 unrelated question?

23 DR. BROWN: As our guest, yes.

24 DR. WILL: Thank you. I'm interested in  
25 what the last two or three speakers were saying

1 about the disadvantages of deferring donors in  
2 relation to loss of blood supply, but one other last  
3 issue I think presumably must occur is that if you  
4 are a blood donor and you're told you're no longer  
5 allowed to donate because of the risk of new-variant  
6 CJD, there's a possibility that that might cause a  
7 great deal of concern to such individuals, and I  
8 wonder if any of these surveys there's evidence that  
9 the donor population have been caused anxiety and  
10 whether there's been any evidence of depression or  
11 anything of that sort in this particular population.  
12 I think it's an important consideration.

13 DR. BROWN: Yeah, I'm sure the answer is  
14 yes, but you will want to verify that from the  
15 floor.

16 DR. CHIAVETTA: I don't know about  
17 everywhere else, but I do know that we certainly  
18 have not had instance of that. Our nursing  
19 department is very good about that. The other thing  
20 that I didn't report on and I'm not completely done  
21 with the analysis, but we did focused interviews and  
22 that's a half interview on blood donors. Now mind  
23 you these are blood donors that have come in, but  
24 this was before the vCJD survey, and there really  
25 was minimal concern for themselves plus the fact

1 that 40 percent of our blood donors believed we  
2 already tested for CJD. So I don't know whether  
3 we're just dumb in the west of Canada, but whether  
4 that would be true in Quebec. I don't know, but in  
5 fact, we were very shocked at that.

6 There is an analogy for this and that,  
7 of course, is HIV and I think there's a variety of  
8 experiences with HIV across the country. I don't  
9 really know what happens in the U.S. I've been in  
10 blood banking for 16 years and I just don't  
11 understand why people don't seem to get more  
12 concerned, but I've done, I can't tell you how many  
13 surveys over the years, and I've never really seen  
14 significant amounts of that in people that are  
15 generally healthy otherwise.

16 DR. GIULIVI: I could answer from the  
17 surveillance of the CJD from Canada and from the  
18 connections that we've put in with the Public Health  
19 from the federal and the provincial about Canada in  
20 concern. There was an increase of psychological  
21 consults in Canada, not that much, about one percent  
22 more. There was an increase of neurological  
23 consultations due to our surveillance because the  
24 calls came to us and then we had to refer them to  
25 neurologists, about three percent over the overall,

1 and the calls that we got in Health Canada, we got  
2 about 30,000 calls and we had to screen them and  
3 their concern was not the donation of blood, but the  
4 concern of eating the beef and their coming down  
5 with the disease and we had to explain that.

6 DR. LEITMAN: I'm the Medical Director  
7 of a smaller donor center. We have a population of  
8 2500 whole blood donors and 1500 platelet apheresis  
9 donors. We implemented April 17th, and we deferred  
10 17 so far, three platelet apheresis and 14 whole  
11 blood donors. The majority were quite distressed.  
12 They asked to speak to the Medical Director or  
13 another physician in at least half the cases and I  
14 spoke to numerous numbers of at least seven or eight  
15 of such donors, and I finally had to explain that as  
16 a perception of increased safety, an unmeasurable  
17 gesture almost on the part of advisory committees of  
18 the appearance of increased safety because there was  
19 no documented risk, just a theoretical risk, but  
20 presenting actual data was just too hard for them to  
21 understand. But it's quite distressing.

22 DR. BROWN: Yes, in my experience the  
23 most typical reaction is anger. They get furious,  
24 rather than depressed.

25 DR. LEITMAN: We direct that at the FDA

1 and then they understand.

2 DR. BROWN: Other questions?

3 DR. SAYERS: Yes. Paul, I'd like to  
4 follow up on that one too. The reactions, and I'm  
5 almost reluctant to talk about this because in a  
6 quasi scientific group here, it's difficult to talk  
7 about issues that don't have units and measurements.  
8 But when you speak to donors that have been  
9 deferred, I agree with Susan. Their response, and  
10 we had 215 individuals deferred so far, in the first  
11 five there were two individuals who had been them  
12 donated 250 apheresis platelets during their  
13 donation history, but the gambit of the experience  
14 ran from dismay to duration. So the point that you  
15 made was one that was well taken, and I think we're  
16 inclined to forget when we talk about the table  
17 here, the donor deferral for some individuals  
18 becomes a socially stigmatizing event because donor  
19 deferral is associated with Hepatitis, with HIV and  
20 it's not associated with tourism, and the  
21 individuals who try and explain to their spouses  
22 that they have been permanently deferred are often  
23 at a difficult point in being able to say something  
24 sensible because we cannot in return answer their  
25 question with confidence when they pose the question,

♦

1 "Well, why am I deferred and what is the risk for my  
2 sexual partner? What should I tell my physician?  
3 What should I be telling my dentist? How can I get  
4 tested? What is my prognosis?" I don't think we  
5 should lose sight of that when we're trying to  
6 enhance safety. We can't be doing it even at the  
7 risk of further alienating individuals who  
8 originally came to blood programs intent on  
9 exercising their altruism.

10 DR. BROWN: Yeah, thank you, Merlin.

11 DR. KATZ: Paul.

12 DR. BROWN: Yes.

13 DR. KATZ: On the theory that enough  
14 anecdotes make data --

15 DR. BROWN: I just wanted to say,  
16 Merlin, this is a fully scientific group, not quasi.

17 DR. SAYERS: What category does that  
18 fall into, Paul?

19 DR. KATZ: My experience is with about  
20 100 deferrals for this now. Ours is essentially  
21 identical to what Susan describes. I think there  
22 are a few depressed people. There is a large  
23 plurality of extraordinary\* confused individuals and  
24 a quarter that are just flat mad. There is not  
25 truth to the rumor that I've given Jay Epstein's

♦

1 phone number and e-mail address, however. The only  
2 thing that I found more difficult in, I don't know,  
3 15, 18 years in blood banking, is explaining an HIV  
4 false positive is harder, but that's the only thing.

5 DR. BROWN: Yeah, this touches on the  
6 phenomenon or the issue that comes up time and time  
7 and time and time again, for this kind of deferral,  
8 for another kind of deferral, for anything that goes  
9 on in our field, it's always involved in a process  
10 of continuing education and in time, people do  
11 understand that decisions are made because we can  
12 afford to make them or their conservative to a point  
13 where they're not necessarily realistic but we find  
14 that the trade off warrants the precautions, but it  
15 certainly doesn't happen overnight and it requires  
16 just constant explanation and education. Yes.

17 DR. HOLLAND: Yes, Paul Holland. Just  
18 to echo it another way, you're trying to reassure  
19 these people that they're really okay, and they're  
20 not at risk. They're not to worry about this, but  
21 you can't donate blood. Well, that's a very mixed  
22 message, and they go away, angry, upset, frustrated,  
23 disappointed, and there's this lingering doubt in  
24 their mind. There must be something wrong with me.  
25 Otherwise, they would let me donate blood, and it's

1 very hard to dispel that in these people because  
2 they cannot donate blood. In fact, you've told them  
3 they permanently are out, but don't worry about it,  
4 you're really okay.

5 DR. BROWN: One way I guess that you  
6 could mollify this is to point out and emphasize the  
7 fact that this very likely to be temporary and that  
8 we're not sure what's going on, but we're trying to  
9 be as safe as we possibly can and maybe in four  
10 months or eight months when the situation shakes  
11 out, everything's going to be okay again. And  
12 that's true. That's not lying to them. That's  
13 telling them exactly what's going on.

14 DR. HOLLAND: Yes, but we use the polite  
15 term here deferred. The real term is rejected and  
16 these people whether you reject them for four months  
17 or eight months, it's very difficult to get them  
18 back. You've rejected them.

19 DR. BROWN: Well, yeah.

20 DR. HOLLAND: And do we really have hope  
21 in four months or eight months that this is going to  
22 turn around. I doubt it.

23 DR. BROWN: I don't know about getting  
24 them back, but my definition of deferred is  
25 temporary rejection.

1 DR. LURIE: I'm not somebody who is in  
2 the position of having to relay this message to  
3 anybody, but I will make two observations. One is  
4 that the fraction of people who will defer, will be  
5 rejected, will decline over time because there's an  
6 end on it, 1996, and you can't continue to  
7 accumulate years of travel from now on out. So as  
8 people get older, the fraction of people affected by  
9 this will go down from 2.2 percent. That's a  
10 maximum estimate.

11 Second is that inevitably any problems  
12 on a sort of psychological behavioral level that are  
13 encountered will be worse right now, where people  
14 are coming for the first time and encountering this  
15 new regulation for the first time, and over time,  
16 people will be better educated and it will become  
17 less of a problem.

18 DR. BROWN: Yes. Go ahead.

19 DR. EWENSTEIN: Well, let me make a  
20 comment about the current discussion and then ask a  
21 question of Dr. Giulivi. You know if they weren't  
22 blood donors and they just came to our medical  
23 office with this question; I'm not sure what we  
24 would tell them. I mean we've posed this in sort  
25 of, you know, here's this poor altruistic donor. If

1 you're a resident of the UK, right now you're still  
2 living with a lot of uncertainty. This epidemic may  
3 be flat. This epidemic may explode. I don't know  
4 what a physician or a psychiatrist is telling his  
5 patient in the UK right now about how much to worry.

6 Now you have a patient or a donor in the  
7 United States who has a fraction of that risk but  
8 it's a measurable fraction of that risk as best we  
9 can tell. He's lived there 10 years, not 20 years.  
10 You know, to tell that person you have absolutely  
11 nothing to worry about, that epidemic in the UK has  
12 nothing to do with your 10 year visit, may be just  
13 as disingenuous as anything else we can tell them  
14 until we know more about the scope of the epidemic.  
15 So it's really not a donor deferral questions. It's  
16 what do you tell people in the UK and who have been  
17 in the UK for a long time. If we knew what to tell  
18 them, we would be much clearer about what to tell  
19 our donors.

20 The question I had which is not totally  
21 off the track, for Dr. Giulivi, was whether there  
22 was any sensitivity analysis done on those  
23 projections? Obviously there must have been some.  
24 There were a lot of hypotheses, a lot of variables,  
25 obviously built into the model, and I was wondering

1 if you could identify for us where the greatest  
2 impact or what variables would have the greatest  
3 impact on those graphs that you showed us  
4 particularly the ones that showed the probability of  
5 acquiring disease based on length of stay in various  
6 countries.

7 DR. BROWN: Tony, your response will  
8 conclude this discussion.

9 DR. GIULIVI: Sure. Yes. Sensitivity  
10 by using the Monte Carlo Analysis and the most  
11 sensitive one was the amount of beef imported to a  
12 country, the assumption, you know, how much was  
13 imported and how much, you know, the amount of beef  
14 contamination, how much will that express into  
15 exposures. Okay. That was the most sensitive. The  
16 second one was the variant CJD, you know, the  
17 incidence that we used as a proxy in the 60 cases  
18 divided by the population and we did analysis there.  
19 That was the second variable that was more  
20 sensitive.

21 DR. EWENSTEIN: Are you saying that the  
22 number, because it's almost a straight line.

23 DR. GIULIVI: \*But it humps. The way you  
24 saw it, it humps and then it goes that way, okay.  
25 That's the way the graph is just done.

1 DR. EWENSTEIN: At about two years it  
2 was about 10 to the minus five.

3 DR. GIULIVI: That's right.

4 DR. EWENSTEIN: That's right. So at 20  
5 years it would only be 20 to the minus four which  
6 would be sort of the entire exposure period --

7 DR. GIULIVI: Right.

8 DR. EWENSTEIN: -- for a UK resident.  
9 So obviously this model is sort of centered around a  
10 total risk for a UK resident of 10 to the minus  
11 four.

12 DR. GIULIVI: You could look at it that  
13 way, yeah.

14 DR. EWENSTEIN: So I'm wondering, you  
15 know, sort of off of that, you know, what other  
16 things that you have to hypothesize about, for  
17 example, the incubation period --

18 DR. GIULIVI: Yeah, we ignored that.  
19 Remember that? We just said that anybody that was  
20 exposed who will come down with the disease, that's  
21 how we went around that and it was a big discussion  
22 and when we presented this to our Advisory Committee  
23 TSE over that issue and, you know, it took about two  
24 hours to express what we have done there.

25 DR. BROWN: Thank you, Tony. We'll now

1 break for 15 minutes, and I will reconvene at five  
2 minutes past 4:00 sharp.

3 (Whereupon, the foregoing matter went  
4 off the record at 3:46 p.m. and went  
5 back on the record at 4:03 p.m.)

6 DR. BROWN: We'll reconvene now and Dr.  
7 David Asher will read the first question which the  
8 Committee is going to design. Can we all reconvene  
9 please? Dr. Asher.

10 DR. ASHER: Thanks, Paul. I won't  
11 reiterate the full charge, but I just want to remind  
12 the Committee that the most important thing that  
13 we'd like to do is to entertain advice on whether  
14 the FDA deferral policy should change, and in so  
15 doing, we ask you to compare the risk from people  
16 incubating new-variant CJD because of residence in  
17 the UK with that risk for people who are resident in  
18 France and other BSE countries recognizing that in  
19 the past we have realized that there's no  
20 possibility of achieving a zero risk and we don't  
21 expect that now.

22 Finally, we ask you to consider any  
23 policy change in the context of the risk that that  
24 change in policy would have, that is the loss of  
25 product, potential loss of product and the loss of

1 repeat donors with its potential benefit. We do ask  
2 that you keep the implications for the blood supply  
3 in mind.

4 That having been said, we can turn on  
5 the overheads and I'll read the questions one by  
6 one.

7 Question 1: Do the Committee members  
8 believe that available scientific data on the risk  
9 of transmitting CJD and new-variant CJD warrant a  
10 change in the current FDA policy regarding deferrals  
11 of blood and plasma donors and product retrievals?  
12 And we ask you to comment on this. Thank you.

13 DR. BROWN: On this first question, the  
14 vote when it comes, a yes vote will indicate that  
15 the Committee believes a change is warranted, and a  
16 no vote will leave the present policy intact.

17 What I would like to do now is to let  
18 you know how I'd like the votes to be made in terms  
19 of format, and I use as a precedent the U.S.  
20 Congress. We can discuss and you can justify what  
21 you are going to do because you probably already  
22 know what you're going to do in advance of the vote.  
23 The vote itself, there are so many questions that  
24 the votes themselves will be a strictly yes, no or  
25 abstain. There will be no discussion for your vote

1 at the time of your vote and I will call your name  
2 and you will vote and I will reiterate how you  
3 voted. So the first vote is up now for discussion.  
4 Not a vote. If there is discussion before we vote  
5 on this question, we should do it now. Yes, Susan.

6 DR. LEITMAN: First, I want to thank the  
7 FDA for revisiting this on a yearly or more often  
8 basis and giving us the opportunity to answer  
9 exactly this question. I would vote yes, it is time  
10 for change but not perhaps change in the direction  
11 that is going to be indicated by the questions  
12 following the initial question.

13 I was very influenced this morning by  
14 Dr. Jay Epstein's comments to us to urge us to  
15 consider the marginal increase in safety, the  
16 marginal theoretic increase in safety of deferring  
17 individuals who have resided and traveled in France  
18 for any period of time based on the recent three  
19 cases and that those three cases, his discussion was  
20 very open, constitute perhaps five percent in France  
21 of the risk in the UK. So in the next year we may  
22 see three more cases and a couple of years after  
23 that we may see one case in the Netherlands based on  
24 consumption of risk material, oral consumption of  
25 risk material from Britain.

1           The risk to individuals who have resided  
2           in those countries, in France and the Netherlands,  
3           who have resided, who have lived, who are citizens  
4           of those countries and travel there, is much, much  
5           greater than any American who's traveled to those  
6           areas. Residing and inhabiting and again being  
7           citizen of those countries, one's risk for variant  
8           CJD is much greater than a traveler to that area  
9           because this disorder has never been reported,  
10          there's no epidemiologic data in support of a  
11          traveler being at risk in terms of disease having  
12          occurred.

13                 So if one wants to proceed with that  
14          logically since we voted last year, the majority  
15          voted to defer individuals who have traveled, you'd  
16          have to defer individuals who are citizens of those  
17          countries because the risk is greater than that of  
18          the traveler. So the whole system is illogical.  
19          What we established last year sets the precedent for  
20          more votes that are positive to increase, to add  
21          marginal increases in safety that have overwhelming  
22          consequences to the donor population here.

23                 My suggestion is to revisit the entire  
24          question of who should be deferred, if anybody  
25          should be deferred, for travel or residency to the

1 countries that we've been discussing this morning,  
2 and I have a suggestion, and I'll stop there. I  
3 know it's very long, which is that the true risk and  
4 the documented risk is in citizens of those  
5 countries who have lived there their lives or most  
6 of their lives, the youngest age being 14, I suggest  
7 that we should defer individuals who have spent 10  
8 or greater years which means they have to had been  
9 residents of the countries we're talking about  
10 during the period from 1980 to 1996. The  
11 individuals that fit into that category will  
12 understand immediately why they're being deferred.  
13 They would not have the feelings that we've  
14 discussed at length early this morning. And I feel  
15 I could justify that, your questions says, available  
16 scientific data. I could justify that on the basis  
17 of available scientific data. I don't think I could  
18 justify anything else on that basis.

19 DR. SCHONBERGER: Do you mean all BSE  
20 countries?

21 DR. LEITMAN: I think that's open for  
22 discussion. You could sharp shoot and say UK,  
23 Netherlands and France, which I think are the  
24 highest risk, 80 percent.

25 DR. SCHONBERGER: Loosening for the UK?

1 DR. LEITMAN: Loosening, yes. Loosening  
2 for the UK to include other countries and I'm not  
3 sure, I think that's open to discussion.

4 DR. BROWN: The only thing I would say,  
5 Susan, is that the current policy would certainly  
6 apply to citizens. I mean they have lived there  
7 more than six months.

8 DR. LEITMAN: It refers to individuals  
9 who are at theoretic risk?

10 DR. BROWN: No, no, but I mean just in  
11 terms of clarifying travelers versus citizens, as  
12 the FDA guidance now exists, it automatically takes  
13 care of citizens. So they would be deferred because  
14 they've lived in, unless they're citizens of Great  
15 Britain and were born in an airplane.

16 DR. LEITMAN: No, that's true, but my  
17 new proposed deferral would capture the population  
18 that's truly at risk, the greater than 10 year.

19 DR. BROWN: Yeah, no, right. I just  
20 want to clarify that citizens are already excluded.  
21 Yes. Linda.

22 DR. DETWILER: I just had a question of  
23 Dr. Leitman because this came up during the break  
24 here. You said Netherlands and France I believe.  
25 What was that based on? Was that based on the

1 Canadian?

2 DR. LEITMAN: It was. It's also in our  
3 written materials. The French report went through  
4 that as well.

5 DR. DETWILER: Okay. One of the things  
6 I think that I've heard Bob say before, Bob Will, is  
7 that again the muscle meat is not what we think is  
8 the source. It's the CNS incorporated into this  
9 mixed meat and so I would caution looking at carcass  
10 beef moving on to any country as risk material. I  
11 know we did studies here and looked at products and  
12 what not, and you have things that you barely know  
13 that there's meat in it and it's all kind of mixed  
14 products, and they're the high risk material and  
15 that's very, very difficult to capture. I know just  
16 looking at the United States and trying to put all  
17 these fire walls up at the port because it's in  
18 things like spaghetti sauce. And they are the  
19 things that I think are risks but it's hard to get  
20 the data on that versus the carcass beef which  
21 probably is a lot lower risk.

22 DR. BROWN: Yes. Go ahead.

23 DR. HOLLINGER: Well, I'd like to  
24 reiterate a little bit of what Susan said. Last  
25 year I also voted no on this issue anyway and I

1 haven't really seen anything that's changed my mind  
2 at the present time, and I will probably vote yes  
3 for a change, but a change primarily to eliminate  
4 the deferral as I felt last year. There were two  
5 votes last year that separated this Committee from  
6 advising. Somehow I think it's nine to seven or 11  
7 to nine, something like that, for and against.

8           The fact is that as I see it, the  
9 surveillance is excellent in Britain and also  
10 appears to be in France as well, and there seems to  
11 be somewhat of a lag time, and if you take the data  
12 in which there are 60 cases now in 60 million  
13 people, it's about one out of a million, and we  
14 suspect perhaps there will be more cases but even if  
15 it's one out of 300,000 and the risk then in France  
16 is five to 10 percent of that, you're looking at one  
17 out of three to six million, and then you have to  
18 tie into that, and I think the risk to people who  
19 have traveled there from the United States to  
20 Britain for six months or more, that the risk would  
21 be even much less than that and then we're talking  
22 about the theoretical risk for which there is no  
23 data that this could be transfused and associated  
24 maybe, but that's a risk that hasn't even occurred  
25 in Britain yet and which I think would precede what

1 one would see in the United States or perhaps even  
2 in France. So from my standpoint, I still see  
3 nothing that has changed my viewpoint, a donor  
4 deferral for six months and travel to the United  
5 States from a citizen of the United States anyway is  
6 valid.

7 On the other hand, I think that what  
8 Susan has said about deferring people who have lived  
9 in Britain, whether it's five years, 10 years or a  
10 period of time, it would make them more like a  
11 resident of that country seems justified.

12 DR. BROWN: I remind the Committee that  
13 the first question has to do only with the United  
14 Kingdom only. We're not talking in the first  
15 question about any other country than the United  
16 Kingdom. That comes up in the second question.  
17 Larry.

18 DR. SCHONBERGER: My recollection is  
19 that we discussed this issue for the United Kingdom  
20 in part because the United Kingdom government itself  
21 had barred its own residents from being part of the  
22 donor population for plasma products. I think it  
23 would be a poor precedent for us to change what we  
24 did last time without their being at least some more  
25 data than what I've heard that the situation in the

1 UK has changed markedly towards the better. It is  
2 true that last time I had voted for like a three or  
3 five year duration before we would screen, but I  
4 sensed from the rest of the Committee that they  
5 wanted to go down to a much tighter level of  
6 control. Now that we've done that, I would feel the  
7 need for something more substantial than what we've  
8 heard, to say that the situation in the UK, you  
9 know, is much better than it was when we last voted.  
10 The most important data perhaps that we had was the  
11 absence of the curve shooting up of the uppy curve  
12 in the UK but I got the sense from Bob that he  
13 doesn't take too much reassurance from that yet. It  
14 hasn't gone on long enough particularly if you look  
15 at those models. There's still a substantial  
16 maximum possibility of the numbers of cases and then  
17 the other somewhat reassuring at least was that  
18 survey of the tonsils and appendices which didn't  
19 have any positives but the data we saw from that, it  
20 still was consistent with an outbreak of as much as  
21 150,000 people and I don't even think we were  
22 thinking of numbers that large when we voted last  
23 time for imposing this particular screening  
24 criteria. So I'm going to end up probably voting no  
25 for this particular question.

1 DR. BROWN: Yes.

2 DR. CLIVER: Requesting a clarification  
3 of the Chair's clarification. If on question one  
4 the ultimate vote is no, does that trigger a  
5 reconsideration? I mean is there an option of de-  
6 escalation as well as escalation from this? It's  
7 not clear that anything further would follow from a  
8 note vote.

9 DR. BROWN: That's right. A vote of no  
10 is status quo with respect to the United Kingdom.

11 DR. CLIVER: I'm sorry. I meant a vote  
12 of yes, does that leave the option of de-escalation?  
13 -- follow up in prospect, just yes or no?

14 DR. BROWN: Well, maybe the FDA would  
15 like to respond, but the question as asked allows a  
16 change of any sort.

17 DR. CLIVER: Yeah. Your interpretation  
18 is just the UK was the intention.

19 DR. BROWN: Yeah, right. But with  
20 respect to the first question, it's in either  
21 direction with respect to the UK. Forget everything  
22 else and think about the UK for this question.

23 DR. LEITMAN: 'Paul, that's not what's on  
24 the screen. If you look at the title of the screen  
25 --

1 DR. BROWN: Yeah, unfortunately it's not  
2 what's on the screen, but it's in the questions that  
3 are written. The question as written, and I'm sorry  
4 about the disparity, do the Committee members  
5 believe that available scientific data on the risk  
6 of vCJD warrant a change in the current FDA policy  
7 regarding deferrals of blood and plasma donors based  
8 on a history of travel or residence in the UK? Yes.

9 DR. LURIE: Just procedurally, it  
10 doesn't seem wholly logical to me that those of us  
11 who would like to see things weakened from the  
12 status quo should be voting in the same direction of  
13 those of us who would like to see things  
14 strengthened compared to the status quo. So I'll  
15 leave it to you to sort out but I'm not sure we  
16 should be voting in that fashion.

17 I think Larry's summary of the  
18 developments since the last meeting are helpful with  
19 just one exception which the data on deferrals, the  
20 donor deferral data, and what we see is that the  
21 number of in effect documented deferrals is vastly  
22 lower than what was initially predicted. Now that  
23 might be due to some self-deferral, but what that  
24 amounts to is in effect that 95 percent of deferrals  
25 were self-deferrals. I say this because there was a

1 predicted 2.2 percent decrease in the number of  
2 donors or the number of units I guess it was and  
3 instead we saw about .11 percent decrease in the  
4 number. So it's five percent. That amounts to five  
5 percent. 95 percent must have deferred themselves.  
6 That seems high to me. But regardless, the number  
7 that really matters is what the inventory looks  
8 like, and Dr. McCurdy had data that were relevant to  
9 that. He showed that the inventories by and large  
10 safe.

11 The only data that I see that are really  
12 new are reassuring data that show that what we did  
13 appears to have done no harm.

14 DR. BROWN: I'll make a comment also and  
15 that is I think the Committee last year, the  
16 Committee decision was a reasonable one. It was not  
17 based on any satisfactory scientific evidence for  
18 the magnitude of the potential risk. It was based  
19 on a position of maximum conservatism viewed against  
20 the context of its disadvantages and I think nothing  
21 has happened in the year since that decision was  
22 made to warrant a change. The epidemic could  
23 explode and we can reevaluate this.

24 In fact, I think it probably worthwhile,  
25 David, to let everyone know that there is a

1 committee which you have established in the FDA to  
2 reassess the situation with respect to BSE and new-  
3 variant CJD in Europe on at least a six month and I  
4 think probably a four month basis.

5 DR. ASHER: The FDA has made a  
6 commitment to the Surgeon General that issues both  
7 of risk and of effect on the blood supply will be  
8 revisited at least every six months, and I must say  
9 that that commitment affected the decision to  
10 convene this meeting of the TSE Advisory Committee.

11 I can't restrain myself from commenting  
12 that I was struck today by the fact that the single  
13 Irish case of new-variant CJD had been a resident in  
14 the United Kingdom for six years.

15 DR. BROWN: I'm prepared to call a vote  
16 on this first question if the Committee agrees.  
17 Susan.

18 DR. LEITMAN: In Larry's analysis of  
19 things that have changed and have not changed since  
20 last year, he didn't include one critical point  
21 which is documentation of transfusion transmission  
22 and lack of evidence in this case I think is  
23 substantial evidence against transmission especially  
24 in the, I'm not sure if my number is right, the six  
25 individuals who donated 30 components or something

1 like that, 12 of which were actually transfused and  
2 traced. It's short, a small number of data, small  
3 number of points, small number of recipients and not  
4 a very long follow up period, but again there's no  
5 evidence whatsoever of transmission through  
6 transfusion.

7 DR. BROWN: I agree with Susan. It's a  
8 point against. I probably don't put as much weight  
9 on it as a point against as she does, but such as it  
10 is, Bob Will himself qualified it properly. Most of  
11 the transfusions have occurred within the past three  
12 or four years. We certainly have experimental  
13 evidence from monkey experiments indicating that low  
14 level infectivity transmissions with no species  
15 barrier can take six, eight and 10 years. So I  
16 don't think the negative is really a massive  
17 argument.

18 DR. EWENSTEIN: Thank you for saying  
19 that. I was going to say something very similar. I  
20 don't think there's any conclusion that can be drawn  
21 from the transfusion data. I think the risk of  
22 transfusion transmission for variant CJD could be 50  
23 percent right now looking at the data and given an  
24 invariably fatal disease. I don't think any blood  
25 banker here would accept that as a risk or it could

1 be zero, but I think we're exactly where we were at  
2 the last vote and I think it would not be good form  
3 in the absence of new data as quasi scientific as  
4 the last set of data might have been to change our  
5 position.

6 DR. BOLTON: Paul.

7 DR. BROWN: Yeah.

8 DR. BOLTON: I'd just like to say I  
9 voted against the ban, the deferral last time and if  
10 we were starting fresh, I would like to see a longer  
11 time period. Being in the position that we are now,  
12 I think it would be extremely unwise to relax the  
13 deferral conditions and then later perhaps have to  
14 come back and tighten them again. So I would vote  
15 against the change.

16 DR. BROWN: Let's put it to a vote. Dr.  
17 Schonberger.

18 DR. SCHONBERGER: No.

19 DR. BROWN: Dr. Detwiler.

20 DR. DETWILER: No.

21 DR. BROWN: Dr. Leitman.

22 DR. LEITMAN: Yes.

23 DR. BROWN: Dr. Lurie.

24 DR. LURIE: No.

25 DR. BROWN: Dr. Ewenstein.

1 DR. EWENSTEIN: No.

2 DR. BROWN: Dr. Belay.

3 DR. BELAY: No.

4 DR. BROWN: Dr. Tramont. I have your  
5 name written poorly here.

6 DR. TRAMONT: That's right.

7 DR. BROWN: Is it? Good. Tramont.

8 DR. TRAMONT: Yes.

9 DR. BROWN: Dr. Bolton.

10 DR. BOLTON: No.

11 DR. BROWN: Dr. Hollinger.

12 DR. HOLLINGER: Yes.

13 DR. BROWN: Dr. Brown votes no. Ms.  
14 Walker.

15 MS. WALKER: No.

16 DR. BROWN: Dr. Piccardo.

17 DR. PICCARDO: No.

18 DR. BROWN: Dr. Hoel.

19 DR. HOEL: No.

20 DR. BROWN: Dr. Burke.

21 DR. BURKE: No.

22 DR. BROWN: Dr. Cliver.

23 DR. CLIVER: No.

24 DR. BROWN: Dr. Ferguson.

25 DR. FERGUSON: No.

1 DR. BROWN: Dr. McCurdy.

2 DR. McCURDY: No.

3 DR. BROWN: Dr. McCullough.

4 DR. McCULLOUGH: No.

5 DR. BROWN: The vote is --

6 DR. FREAS: Two yes votes.

7 DR. BROWN: Sixteen no.

8 DR. FREAS: Three yes votes. Three yes  
9 votes.

10 DR. BROWN: All right. So the vote is  
11 15 no votes and three yes --

12 DR. FREAS: Just for clarification of  
13 the record, Dr. Leitman voted yes, Dr. Tramont voted  
14 yes and Dr. Hollinger voted yes. Is that correct?  
15 Three yes votes.

16 DR. BROWN: So the Committee votes 15 to  
17 three in favor of status quo for question 1.

18 And now we come to the more guisy  
19 question, question 2. David. Do the following  
20 questions reflect exactly the language on the  
21 written, do you know?

22 DR. ASHER: To simplify the questions  
23 sometimes, one drops out important things.

24 Considering the current scientific data on the risk  
25 of new-variant CJD and the potential impact on the

1 blood supply, should FDA recommend deferral from  
2 blood or plasma donation for persons with a history  
3 of travel or residence in France? And there are  
4 four contingent questions.

5 DR. BROWN: Let's just work on that one.  
6 So the question is does the Committee feel that any  
7 kind of deferral policy should be inaugurated with  
8 respect to residents and travelers to France, just  
9 irrespective of time of deferral. Just the  
10 question, should there be any initiative with  
11 respect to deferral? Comments, questions, yes.

12 DR. BURKE: My answer is no, it should  
13 not and my assessment of the data is that if there  
14 is any risk associated with living or being in  
15 France, that it is substantially less than that in  
16 the UK and it's probably on the order of magnitude  
17 of 1/20 of the risk of being in the UK during that  
18 same time period, and if we balance those benefits  
19 and risks about deferral of donors in the United  
20 States, on this one I think that we come down on  
21 this side, that there is no significant risk  
22 benefit.

23 DR. BROWN: Let me charge in here. I've  
24 just written out for myself and then I won't  
25 probably say anything for the rest of the meeting.

1 I heard that.

2 I think that any deferral policy based  
3 on national BSE incidence is impossibly complicated  
4 and, two, qualified by incomplete data for anybody  
5 to make any rational decisions. I think  
6 contaminated beef is responsible for new-variant  
7 CJD. I note that in France the incidence of new-  
8 variant CJD is one-tenth to one-twentieth, one-  
9 twentieth actually of what it is in the United  
10 Kingdom, and that fits perfectly the postulated  
11 exposure to imported beef from the UK which is about  
12 one-twentieth of that of the UK. If the UK exposure  
13 of six months would be equivalent therefore in a  
14 very simple minded way to a French exposure of about  
15 six to 12 years, and I think the proportion of  
16 donors resident in France for 12 years or more is  
17 too small even to bother asking the question and  
18 that residence in other countries would be even  
19 longer, and I recognize that the epidemic in the UK  
20 could explode and thus needs a regular periodic  
21 reassessment, but on the basis of this very  
22 straightforward and perhaps simple minded reasoning,  
23 I would and will be voting against any other  
24 deferral policy at this time.

25 Other questions? Other comments?

1 DR. HOEL: I would continue with that  
2 analysis and say if you feel you need more  
3 conservatism, then you'd probably do better on a  
4 risk benefit basis of tightening the British  
5 requirement as opposed to have any requirement on  
6 France which I'm against changing at this time, the  
7 British.

8 DR. BROWN: Bob.

9 DR. ROHWER: I think we should keep in  
10 mind that the measures that we have implemented so  
11 far can at best mitigate but never eliminate the  
12 risk from this type of exposure and in fact, the way  
13 it's been implemented, we built in a 10 percent risk  
14 of exposure because we were only claiming to  
15 eliminate 90 percent of the risk at the six month  
16 exposure. So any incremental change is not going to  
17 benefit us to add an increment to that 10 percent.

18 Furthermore, from my perspective anyway,  
19 the danger from these exposures is not so much from  
20 the rare possible transmission from a primary  
21 exposure of a donor to a recipient, but rather the  
22 worry that variant CJD may be more virulent than CJD  
23 especially with respect to blood borne infectivity  
24 and the concern that the epidemic might be expanded  
25 through the pooling of blood and blood products.

1 And from that point of view, I feel like the better  
2 thing we could do with respect to the French  
3 situation is to learn from the French and do what  
4 they've done.

5 I feel that one of the smartest things  
6 we could do is to expend our limited ability to  
7 defer people, to defer people who have received  
8 human-derived biologicals in the past from giving  
9 blood in the first place, and I'd rather see the  
10 whole argument focused in that direction than on the  
11 deferral of people who have traveled to these  
12 countries because if there's a lesson that we can  
13 learn from the BSE epidemic, it was that when the  
14 feed ban was put in place, it worked. It had a very  
15 dramatic effect in arresting that epidemic and  
16 bringing it back to a low level, and an exactly  
17 analogous thing in the human population is our use  
18 of human-derived biologicals. We're not cannibals  
19 per se but we do use these products that we get from  
20 each other and we have this same type of  
21 interspecies, intraspecies exposure to each other  
22 via these products, and I would argue again, I  
23 argued for this the last time we met, but I'd like  
24 to bring it up again here, that building this type  
25 of fire wall from the people who are perhaps and we

1 don't know how big this cohort might be, what the  
2 prevalence rate might be, but building a fire wall  
3 between us and the people who are already exposed to  
4 this disease and incubating it seems to me to be the  
5 most sensible thing we can do to protect ourselves  
6 from the expansion of this epidemic.

7 DR. BROWN: Thank you. Any other  
8 questions or comments? Then let's put the second  
9 question to vote. Larry.

10 DR. SCHONBERGER: I just wanted to add.  
11 I find myself in agreement with you, Paul, and  
12 wanted to also mention, I don't know how others  
13 reacted, but I'm not quite as assured that our votes  
14 last time have not had some negative consequences.  
15 What we've heard so far is, you know, no shortage,  
16 not apparent decrease and as you say, you know, the  
17 reserve seems to be fine, but a lot of what was  
18 implemented is relatively recently implemented and I  
19 didn't get a sense that we have had enough time yet  
20 to truly evaluate the consequences of what we've  
21 already done, and I'd like to see a little bit more  
22 time pass to evaluate that before changing the  
23 system again.

24 DR. BROWN: Paul.

25 DR. McCURDY: Since the variant CJD has

1           apparently come from BSE, it would seem to me that  
2           despite your comments about the difficulty of  
3           knowing what's going on with BSE, that that  
4           frequency in a country may be more important than  
5           variant CJD and I think that the message I got today  
6           was that the major surveillance for BSE,  
7           prospective, active surveillance is in UK and  
8           Switzerland, and not much anywhere else. That is  
9           they're doing careful studies in Switzerland. I  
10          think they're doing analyses of brain tissue from a  
11          large number of cattle to determine what their  
12          frequency is.

13                   DR. BROWN: Other comments or questions?  
14           Yes.

15                   DR. TRAMONT: Larry, I'd like to get  
16          back to what you were just saying. You said that  
17          you wanted more time to see what the impact of the  
18          decision last time had and I presume you mean on the  
19          incidence of CJD, right?

20                   DR. SCHONBERGER: No, no, no. I meant  
21          on the negative consequences to the blood supply.  
22          In other words, many of the blood banks implemented  
23          the screening just recently, like April and we  
24          haven't had data to show what in my just, you know,  
25          the true impact of that necessarily. What we did

1 see was reassuring. It looked like smaller than  
2 what we expected and so on and I'm just saying that  
3 I'm not sure that I want to shake the system up  
4 again at this point for the extra 10 percent  
5 benefits until we are more at comfort that what  
6 we've already done doesn't have a bigger consequence  
7 than what we heard today.

8 DR. TRAMONT: So that if it did have a  
9 bigger impact, you would want to go back and look at  
10 the original question. Is that the logic --

11 DR. SCHONBERGER: Well, I certainly  
12 would not want to aggravate it by adding a new  
13 requirement for screening, you know, adding another  
14 one or two percent on top of something --

15 DR. TRAMONT: I see.

16 DR. SCHONBERGER: -- that I'm not sure  
17 is as benign as we heard today.

18 DR. BROWN: Shall we put question 2 to  
19 the vote? Question 2 again, a no vote represents a  
20 status quo. A no vote represents a vote that the  
21 FDA is not being recommended to initiate any new  
22 deferral policies with respect to France. A yes  
23 vote indicates that you feel that the FDA should  
24 consider deferral policies to France. No vote,  
25 status quo; yes vote, start thinking about France.

1 Dr. Schonberger.

2 DR. SCHONBERGER: No.

3 DR. BROWN: Dr. Detwiler.

4 DR. DETWILER: No.

5 DR. BROWN: Dr. Leitman.

6 DR. LEITMAN: No.

7 DR. BROWN: Dr. Lurie.

8 DR. LURIE: Yes.

9 DR. BROWN: Dr. Ewenstein.

10 DR. EWENSTEIN: No.

11 DR. BROWN: Dr. Belay.

12 DR. BELAY: No.

13 DR. BROWN: Dr. Tramont.

14 DR. TRAMONT: No.

15 DR. BROWN: Dr. Bolton.

16 DR. BOLTON: No.

17 DR. BROWN: Dr. Hollinger.

18 DR. HOLLINGER: No.

19 DR. BROWN: I vote no. Dr. Brown votes

20 no. ;Ms.' Walker.

21 MS. WALKER: No.

22 DR. BROWN: Dr. Piccardo.

23 DR. PICCARDO: No.

24 DR. BROWN: Dr. Hoel.

25 DR. HOEL: No.

1 DR. BROWN: Dr. Burke.

2 DR. BURKE: No.

3 DR. BROWN: Dr. Cliver.

4 DR. CLIVER: No.

5 DR. BROWN: Dr. Ferguson.

6 DR. FERGUSON: No.

7 DR. BROWN: Dr. McCurdy.

8 DR. MCCURDY: No.

9 DR. BROWN: Dr. McCullough.

10 DR. MCCULLOUGH: No.

11 DR. BROWN: The vote is 17 to one,  
12 retaining a status quo position with no  
13 recommendations for the FDA to inaugurate a deferral  
14 policy with respect to France. By that vote, you  
15 have passed go again and have no truck with subset  
16 A, B, C and D, and we now proceed to question 3.

17 DR. ASHER: Question 3 is comprised  
18 again of a main question and four contingent  
19 questions. The main question is Should FDA  
20 recommend deferral from blood or plasma donation for  
21 persons with a history of travel or residence in BSE  
22 countries other than the UK and France?

23 DR. BROWN: I expect question 3 can be  
24 disposed of fairly quickly, but if there's comments  
25 and questions about it before we vote on it, we have

1 time. Question.

2 DR. EWENSTEIN: Let me just make one  
3 comment. I think, and I know it's not the question  
4 before us exactly, but I think that it would be  
5 important for the Committee to recommend that all  
6 countries who are at potential risk do what they can  
7 within certainly the human population, if not the  
8 animal population, to try to institute the sort of  
9 surveillance programs that we've seen in some of the  
10 presentations today because I think we just don't  
11 have any data from some of these countries, and I  
12 suspect we're all going to say in the absence of  
13 data, that we're not going to change the status quo  
14 which is okay. But I think we should recognize the  
15 fact that we are really blind in a lot of these  
16 places right now.

17 DR. BROWN: I think that's a good point,  
18 and I think it's good that it's put on the record  
19 that we're making this vote not to dismiss our  
20 concept of potential risk and Dr. Detwiler has done  
21 a lot of work and will I'm sure be burdened in the  
22 future to no end but, yeah, this should not be a  
23 signal to Europe to indicate that we're unconcerned.

24 DR. LURIE: Paul, speaking personally  
25 which is the only way I can, I'm not as comfortable

1 as you are, Paul, and some other people on this  
2 Committee are in poo pooing the cattle data. I  
3 think that the numbers of CJD cases remain very  
4 small. Even in France, we're talking only about  
5 three cases. That does not reassure me that the  
6 number might not be higher or might not soon be  
7 higher. The same is true for zero cases. So I  
8 still think that the cattle data are in some ways  
9 constructive and in particular I'm worried about the  
10 situation in Portugal where whatever the artifact of  
11 surveillance might be, there is almost a doubling of  
12 the rate of infected cows per million cattle over  
13 the last several years to a point that the rate is  
14 now half of what the rate is in Britain at present.  
15 So I'm quite concerned about that. Fortunately,  
16 Portugal is a country to which the amount of travel  
17 is very limited and so the impact upon the blood  
18 supply of the restriction of Portugal I think would  
19 be low.

20 : DR. BROWN: Yeah, I think your comments  
21 and your comments are that both sides of the same  
22 coin, and I agree with both of you. And I wasn't  
23 poo pooing by the way. I simply said that on the  
24 basis of what we now know and all of the  
25 qualifications that go into these estimates, that

1 it's simply not possible scientifically speaking to  
2 make estimates of risk based on what we now know  
3 about cattle and BSE, and therefore there's no point  
4 in making a policy on essentially totally incomplete  
5 information for most of the countries. I looked at  
6 it as a practical matter, not to imply that.

7 Fundamentally the most important thing is in fact  
8 the number of infected cattle around Europe. So  
9 we're in complete agreement. Are we not?

10 DR. LURIE: Stated that way we are but I  
11 guess you're certainly right that we can't move from  
12 the number or rate of infected cattle to make an  
13 estimate of risk. I think that's true. What we're  
14 really doing is we've established in the previous  
15 time a kind of bench mark of sort of a risk that as  
16 I'm quantified as it was is still in some sense  
17 unacceptable resulting in some kind of a  
18 restriction. So the question is where does the risk  
19 lie relative to that, and for that I don't think  
20 that the human data are particularly helpful when  
21 you're dealing with small numbers. So I look to the  
22 cattle data and as limited as they are, I think they  
23 provide some suggestions that are quite worrisome  
24 and in particular in Portugal. Anyway, that's  
25 probably the other side of the same coin.

1 DR. PICCARDO: Pedro. Dr. Piccardo. I  
2 agree we are very concerned with Portugal, but it's  
3 hard to believe that Spain is not reporting BSE if  
4 Portugal is reporting so much. So I think that --  
5 of course, I have no proof of what I'm saying. What  
6 I'm saying is the analysis of the situation in the  
7 cattle in Europe is something that is very critical  
8 and Spain is one country in which I would like to  
9 keep an eye on.

10 DR. LURIE: Right, but the rate of  
11 Portugal is no less than they estimate it to be I  
12 think. I mean if anything, they're underestimating  
13 it due to poor surveillance. So it may not tell us,  
14 but Spain, God knows what's going on there.

15 DR. BROWN: Well, that's exactly the  
16 point he's making.

17 DR. LURIE: Well, yeah. I'm talking  
18 about Portugal though.

19 DR. BROWN: No, but I mean in comparison  
20 if you're going to say, well, Portugal is bad news  
21 because it's got 300 cases but we're not doing  
22 anything about Spain because they haven't got any,  
23 it's exactly what we were saying. It's impossible  
24 to establish a policy based on this variability of  
25 knowledge of BSE from country to country.

1 A vote on question 3. As in the first  
2 two questions, a no vote is a vote against  
3 establishing any deferral policy for other countries  
4 in Europe. A yes vote says the FDA should start  
5 thinking about deferral policies for other European  
6 countries. Dr. Schonberger.

7 DR. SCHONBERGER: No.

8 DR. BROWN: Dr. Detwiler.

9 DR. DETWILER: No.

10 DR. BROWN: Dr. Leitman.

11 DR. LEITMAN: No.

12 DR. BROWN: Dr. Lurie.

13 DR. LURIE: Yes.

14 DR. BROWN: Dr. Ewenstein.

15 DR. EWENSTEIN: No.

16 DR. BROWN: Dr. Belay.

17 DR. BELAY: No.

18 DR. BROWN: Dr. Tramont.

19 DR. TRAMONT: No.

20 DR. BROWN: Dr. Bolton.

21 DR. BOLTON: No.

22 DR. BROWN: Dr. Hollinger.

23 DR. HOLLINGER: No.

24 DR. BROWN: Dr. Brown votes no. Ms.

25 Walker.

1 MS. WALKER: No.

2 DR. BROWN: Dr. Piccardo.

3 DR. PICCARDO: No.

4 DR. BROWN: Dr. Hoel.

5 DR. HOEL: No.

6 DR. BROWN: Dr. Burke.

7 DR. BURKE: No.

8 DR. BROWN: Dr. Cliver.

9 DR. CLIVER: No.

10 DR. BROWN: Dr. Ferguson.

11 DR. FERGUSON: No.

12 DR. BROWN: Dr. McCurdy.

13 DR. MCCURDY: No.

14 DR. BROWN: Dr. McCullough.

15 DR. MCCULLOUGH: No.

16 DR. BROWN: Again we have a vote of 17

17 against and one vote yes.

18 We will reconvene tomorrow morning.

19 Before we do, I ask anybody on the Committee if they

20 would like to say anything further before we adjourn

21 today. Susan.

22 DR. LEITMAN: I'd like to make one

23 comment. I wrote it down so I'd make sure I got it

24 straight. The Committee's vote suggests that it

25 believes that traveling --

1 DR. BROWN: I didn't hear you. Start  
2 again.

3 DR. LEITMAN: The Committee's vote today  
4 suggests that it believes that traveling, an  
5 American who travels for six, seven, eight months or  
6 so, as little as that, in the UK constitutes a  
7 greater potential threat to the safety of the  
8 American blood supply than an individual who has  
9 lived 30 to 50 years in France. The data on  
10 confirmed cases of variant CJD in residents of  
11 France versus confirmed cases in travelers to  
12 England does not support this view.

13 DR. BROWN: I think the logic of your  
14 reasoning is impeccable.

15 DR. BURKE: I don't. I disagree.

16 DR. BROWN: I don't. I think -- well,  
17 go ahead.

18 DR. BURKE: And the reason is that the  
19 number of individuals, there's a policy here. Do  
20 you put a policy in place for how many individuals?  
21 Do you put a policy in place for the five or 10 or  
22 20 people? No, you don't. You put a policy in  
23 place for a large number of people. So the  
24 practical applications side of the policy is, well,  
25 it isn't just a simple risk benefit of calculating

1 the numbers. There's also the impact of  
2 implementing a policy and you do that for a sizeable  
3 number. You don't do that for a small number.

4 DR. BROWN: There was another -- yes.  
5 Jeff.

6 DR. McCULLOUGH: Another point that was  
7 made earlier that I'd just like to get very clearly  
8 into the record, Dr. Schonberger mentioned and I  
9 think the blood bank transfusion medicine people  
10 here would agree that it is too early to determine  
11 the impact of this present deferral policy on the  
12 blood supply and that while I don't mean to speak in  
13 favor of altering because I voted not to do that, I  
14 just think we need to be very clear that it is  
15 premature and we want to see, we want to watch the  
16 experience to determine what effect this really will  
17 have.

18 DR. BROWN: Is it built in by the way?  
19 I maybe missed a beat earlier. Is this evaluation  
20 of impact on the blood supply ongoing? It's not  
21 going to stop. It is ongoing. Okay. Linda.

22 DR. DETWILER: Just one other comment  
23 for Dr. Leitman is that the FDA's deferral on blood  
24 was a time period in the UK which is now it's  
25 between '80 and '96. So it's not ongoing. So it's

1 not people that are ongoing after '96, and it was  
2 the highest risk period of time in a country that  
3 had magnitudes of infection in their pipeline. So I  
4 think there is a difference between that versus on  
5 the continent.

6 DR. BROWN: And won't we all feel better  
7 if, well, not all of us, the people in the UK won't  
8 feel better, but if by any chance the UK does  
9 explode with several hundred cases in the next year  
10 and we had decided to relax everything today, we  
11 would be very sorry a year from now. Very well.  
12 When is the -- yes, Ernest.

13 DR. BELAY: Just for the record, I think  
14 we should also formally say that this policy should  
15 be revised periodically as more data becomes  
16 available for France and also other European  
17 countries.

18 DR. BROWN: Okay. When do we reconvene  
19 tomorrow, Bill?

20 DR. FREAS: Tomorrow morning we  
21 reconvene at 8:30 in the morning.

22 DR. BROWN: Same as this morning.

23 DR. FREAS: The same as this morning,  
24 according to the Agenda, here.

25 UNIDENTIFIED PERSON: Can we leave our

1 things here?

2 DR. FREAS: They may clear the tables  
3 tonight. So we ask you if you want to save  
4 anything, you take whatever you want to save today  
5 with you. I also would like to make one  
6 announcement because some members won't be with us  
7 tomorrow. We are currently setting up another  
8 meeting of this Committee to meet jointly with the  
9 Vaccine and Related Biological Products Advisory  
10 Committee on July 27th, and in a couple of weeks  
11 we'll have the topics and more information available  
12 and if you look at the next to the last page of your  
13 Agenda, it gives the telephone number for the  
14 Advisory Committee Information Line, and that's  
15 where we'll post the announcement to the public.  
16 Thank you.

17 DR. BROWN: Thank you very much, all  
18 members of the Committee, those of you who are  
19 leaving, we'll hope to see you again at the next  
20 meeting.

21 (Whereupon, the foregoing matter went  
22 off the record at 4:51 p.m., to  
23 reconvene tomorrow, June 2, 2000, at  
24 8:30 a.m.)

25

C E R T I F I C A T E

This is to certify that the foregoing transcript in  
the matter of: MEETING

Before: TRANSMISSIBLE SPONGIFORM  
ENCEPHALOPATHIES ADVISORY COMMITTEE

Date: JUNE 1, 2000

Place: GAITHERSBURG, MARYLAND

represents the full and complete proceedings of the  
aforementioned matter, as reported and reduced to  
typewriting.

Rebecca Davis