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1 the same thing.

2 DR. NELSON: I think the third issue here, which I  
3 think is under c), No. ii), is I think it says "potentially  
4 reduces bacterial contamination" which I think is cleverly  
5 worded. I think that is an issue. Certainly, the amount of  
6 bacterial contamination is reduced with sequential samples,  
7 but I am not sure how much the unit is reduced, and we may  
8 need more data on that.

9 But, to say "potentially," I think it means that  
10 this new system is not necessarily--I mean, it is not  
11 necessarily harmful and it may be beneficial and do we  
12 require a phase III trial in the U.S. or something like this  
13 to do it, which would be--or is this something which can be  
14 done without this kind of an efficacy trial.

15 DR. SIMON: Again, with the lateness of the hour,  
16 I am just trying to make sure the understanding is correct  
17 that, from what the experts have said, it appears that the  
18 primary benefit would be reducing the staff infections in  
19 the platelet concentrates.

20 Of course, that means there would be little  
21 benefit in the units from which on platelets are going to be  
22 made. Is that still correct?

23 DR. VOSTAL: You mean, in the whole-blood  
24 collections?

25 DR. SIMON: Right. And then you have the

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1 apheresis collections, of course, where you would get the  
2 benefit to the platelets, and that the more serious, fatal  
3 reactions would likely to be less effective than the less  
4 serious febrile-type reactions. Is that a reasonable  
5 summary?

6 DR. VOSTAL: I think it is, but I also think that  
7 we really don't know. These are data from small studies.  
8 We really don't have an idea what the actual true  
9 contamination rate across the country is and it is going to  
10 be difficult to see if this--I think we have to make a  
11 decision on this limited set of data or we are never going  
12 to know if it is really going to provide benefit or not.

13 DR. KLEINMAN: Also, in terms of efficacy, Toby,  
14 it seems to me we haven't seen whether this reduction in the  
15 first tube, if you let that platelet sit for four or five  
16 days actually takes it to zero where, if it just reduces the  
17 number of colony-forming units, these culture studies were  
18 generally performed within the first 24 hours.

19 So, I would say, in addition to small numbers, we  
20 really don't know about efficacy because the right  
21 clinically significant studies or blood-storage studies  
22 haven't been presented either.

23 DR. VOSTAL: So I guess one of our questions, one  
24 of the last questions, is--

25 DR. NELSON: I guess, instead of studying for

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1 fatality as an endpoint, one could study colony-forming  
2 units after a certain period of time in the platelets or the  
3 bag or whatever. At the rates that have been reported, that  
4 could be done with a smaller number, I suspect. That is  
5 question No. 3.

6 Do you want us to vote on question No. 1, Jay?  
7 Okay. Can we stay with question No. 1, then, and say are  
8 the criteria that the FDA has proposed, which doesn't say  
9 that it will definitely--but it says closed system, at a  
10 diverted volume, unidirectional flow and the volume is  
11 sufficient for testing and possibly to reduce bacterial  
12 contamination.

13 DR. FITZPATRICK: On the volume, besides being  
14 adequate, is there--can it be put in there that it is a  
15 volume that will be limited so that the--I mean, we don't  
16 want to force blood centers into having to weigh that pouch  
17 and make sure there is only so much blood in it, that it  
18 needs to not be able to be overfilled because then you get  
19 into the problem of drawing too much blood from the donor.

20 DR. EPSTEIN: We say both necessary and  
21 sufficient.

22 DR. BIANCO: You would want to leave some blood  
23 for the patient. [Laughter.]

24 DR. SIMON: The only other group that we didn't  
25 hear from are the testing labs and I presume there is no

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1 problem with this blood being used for testing. There are  
2 no negative factors that any of you see in it. We don't  
3 know?

4 DR. NELSON: If there is hepatitis in the skin  
5 plug.

6 DR. STRAMER: We are assuming the collection tubes  
7 would fulfill the same requirements as in the inserts for  
8 testing that we have now.

9 DR. SIMON: There is no reason to think they  
10 wouldn't.

11 DR. STRAMER: No. We routinely test serum from  
12 most serology tests and plasma for NAT. But, anticoagulants  
13 are qualified for serological testing as well. But serum is  
14 still the preferred sample. But I don't see why there  
15 should be any issues that we have heard that would prevent  
16 successful testing.

17 DR. NELSON: That would be one of the criteria.  
18 Do you want to vote on this? All in favor of these three  
19 criteria, yes?

20 [Show of hands.]

21 DR. NELSON: Opposed?

22 [No response.]

23 DR. NELSON: Abstentions.

24 [No response.]

25 DR. NELSON: Industry?

1 DR. SIMON: Yes.

2 DR. NELSON: Consumer?

3 MS. KNOWLES: Yes.

4 DR. SMALLWOOD: The results of voting on question  
5 1; 14 yes votes, no no votes, no abstentions. Both the  
6 consumer and industry representatives agreed with the yes  
7 vote.

8 DR. NELSON: The second question is up there; for  
9 products that meet FDA's approval criteria, which we just  
10 voted on, do the available European studies provide  
11 sufficient data to support the claim that diversion of an  
12 initial 30 ccs of blood significantly reduces the bacterial  
13 contamination of the final product.

14 DR. MITCHELL: I don't think, first of all, that  
15 we have been able to show that. First of all, there is  
16 limited data. It sounds like a lot of the things that they  
17 are seeing are seeing contaminants, that those are not the  
18 things that cause the disease and, even with the diversion,  
19 there still remain substantial amounts of bacteria in the  
20 blood, apparently.

21 I don't think that it should be recommended at  
22 this point. I don't think we have good enough information  
23 to recommend it, particularly if there are other factors  
24 involved like cost. If it is a tradeoff, and it would be  
25 the same--just a better way of collecting the samples that

1 need to be collected, then, perhaps, it should be considered  
2 for that purpose.

3 But, for decontamination, I don't think that we  
4 have been shown that there is a significant difference.

5 DR. STRONCEK: I guess I interpret this question  
6 as saying that we are not recommending it but we would allow  
7 manufacturers to make the claim, or advertise that this  
8 pouch would reduce--it is not deaths. It says bacterial  
9 contamination. I think the data suggest that there is less  
10 bacterial contamination. Whether or not it prevents any  
11 deaths is another question.

12 But, still, getting septic from a platelet  
13 transfusion is not a good outcome, either.

14 DR. NELSON: This question doesn't say deaths. It  
15 says, "reduce bacterial contamination." So I think what  
16 they are questioning is if you implement this and then you  
17 culture, or measure, the blood--or the platelets or the  
18 blood in the bag, is it lower because of this initial  
19 30 ccs.

20 There was a small amount of data, but I don't  
21 think a whole lot, unless I missed something, on this  
22 question.

23 DR. CHAMBERLAND: I just had a question, a  
24 clarification. The way question 2 is worded, at least it  
25 suggests to me--and this is what is confusing me--as

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1 manufacturers approach FDA with their product, wouldn't they  
2 have to present their own data that they have derived to  
3 show that their bag, in in vitro conditions, inoculating,  
4 sort of repeating these experiments that were done, would  
5 show a reduction in bacterial contamination?

6           Wouldn't they have to provide their product-  
7 specific data as opposed to relying on published data?

8           DR. VOSTAL: Yes. Ideally, yes. We would require  
9 them to provide in vitro testing and a clinical trial.  
10 However, to run a clinical trial to prove that you are  
11 actually decreasing the contamination rate would require a  
12 very large clinical trial.

13           So we actually think that it is probably a good  
14 idea to have these types of systems on the market, but the  
15 question we have is if somebody comes to us with this type  
16 of system, can we allow them a claim of bacterial  
17 contamination reduction just based on the data that is  
18 already published, and not make them go through that whole  
19 trial.

20           DR. CHAMBERLAND: So there are two parts to this.  
21 One is the in vitro piece where you inoculate and then look  
22 for, hopefully, reductions in bacterial contamination. And  
23 then, in the final blood product which I believe you said  
24 was not done in one of the studies, that's correct. And  
25 then I understand what you are saying, the clinical trial is

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1 another issue.

2           So this question is really applicable to the  
3 clinical trial.

4           DR. VOSTAL: To the clinical trial because even if  
5 the company did an in vitro study, I think at least the  
6 study that was published by Dr. Wagner, it is an artificial  
7 system. You start off with a very high contamination on  
8 that port and you can show that you decreased the bacteria  
9 in sequential collections.

10           But it really don't represent what happens when  
11 you puncture a skin. So, in order to understand what is  
12 really going on, we would have to have a large clinical  
13 trial. On the one hand, we understand this would be the  
14 ideal way to do it but, on the other hand, we understand  
15 that companies may not be lining up to do those clinical  
16 studies.

17           So we think if we want to see this reach the  
18 market, maybe we should consider allowing a claim based on  
19 what is already published. I think that is the question we  
20 are trying to ask.

21           DR. KOERPER: It seems to me that the company at  
22 least has to show that its system is equivalent to the  
23 European system, for instance. They have got to do  
24 something to show that their system is effective, safe and  
25 effective. I don't think they can say, "Oh; here, we came



1 up this system, so approve it because a European study with  
2 a different system showed reduction."

3 The companies have got to do some studies.

4 DR. NELSON: Couldn't a company use the same  
5 language that the FDA used in question 1, that it  
6 potentially reduces bacterial contamination without saying  
7 that it does?

8 DR. VOSTAL: I think that is the question we are  
9 asking the committee. To get back to your question, what we  
10 are saying is their system matches the criteria that we  
11 presented in the first question, is that sufficient? Does  
12 the criteria that we presented represent what was published  
13 in the European study? So, if they meet the criteria, can  
14 we give them the label?

15 DR. KOERPER: But it seems like they have to do  
16 some cultures of some blood collected through their own  
17 system. I just have difficulty with simply because they  
18 added an extra bag--I think you need to show that their  
19 system of clamping it off after collecting the first sample,  
20 then clamping it off and then collecting the rest to go  
21 ultimately to be transfused, that you don't get bacteria,  
22 somehow by that extra manipulation of that extra set of  
23 tubes.

24 DR. VOSTAL: I think that is a very good point and  
25 that is what we are discussing.

1 DR. KOERPER: I don't know that it needs to be  
2 8,000 donations. I don't know what the right number is, but  
3 it seems like they should have to do some collections.

4 DR. VOSTAL: That is really question No. 3.

5 DR. McCURDY: One of the suggested benefits of  
6 this collection of the specimen is to avoid loss of units  
7 for having insufficient amount of blood to do the testing.  
8 I have been unable, in my own mind--and I haven't heard  
9 anything presented here, as to what the order of magnitude  
10 is of that. It wouldn't take a lot of units saved to pay  
11 for the bag and, perhaps, a possible reduction or something  
12 like that would be sufficient for the bags to achieve a fair  
13 amount of use.

14 DR. NELSON: I think they could make that claim  
15 without a clinical trial. But the real issue is what claim  
16 can be made about the safety and bacterial contamination.

17 DR. McCURDY: The safety of the bags, I wouldn't  
18 think, would be at issue--

19 DR. NELSON: No; safety of the blood.

20 DR. McCURDY: Whether it would increase the safety  
21 of the blood, my question, I guess, is do we need to have  
22 such a claim in order to make a certain amount--a change in  
23 the way things are done.

24 DR. NELSON: I don't think we do. One could  
25 answer no to this question and still have the bags have a

1 benefit in terms of what you pointed out.

2 DR. McCURDY: Precisely.

3 DR. STUVER: Can I just be clear because it  
4 sounded like they were saying that this question could imply  
5 that it just potentially reduces, but it specifically says  
6 "significantly reduces." I am assuming we are using  
7 significantly in a statistical manner. It is very specific  
8 in the question in that way, that that would be the kind of  
9 claim that could be made, not "potentially reduces."

10 DR. VOSTAL: I think the word "significant" is in  
11 there because if we were going to require a clinical trial,  
12 we would look for a statistically significant difference, to  
13 give them that claim.

14 DR. STUVER: That is a major claim, then, to give  
15 them.

16 DR. FITZPATRICK: I just have a couple of things.  
17 I will be brief. They could just market this as an  
18 alternate collection system without making any claims for  
19 safety or bacterial contamination, and that would solve that  
20 whole problem. The other is, on the BaCon study, of those  
21 twenty-six apheresis platelet units that were contaminated,  
22 do we know how many were collected with diversion pouches?

23 We heard from Haemonetics and Kobe that they have  
24 been doing that for several years now. So that would be a  
25 piece of information that would help. The other is that, in

1 the past couple of months, we have seen in the literature  
2 recommendations that we change the skin prep and that that  
3 would have a dramatic effect on bacterial contamination.

4           So there is more than just one thing going on to  
5 change that. The third is, we need to focus, I think, on  
6 the fact that we probably are not going to affect fatalities  
7 by doing this. So I think it is an alternate method of  
8 sample collection that may have benefit, but we don't know  
9 what that benefit is.

10           DR. KAGAN: I have one comment. Wouldn't the  
11 requirement for the manufacturer be to validate that it  
12 meets the criteria in 1. a), b) and c) and not necessarily  
13 the bacterial contamination. They have to prove that their  
14 product does what it says in a), b) and the subsets, not  
15 necessarily the other items.

16           DR. NELSON: I don't know. If they were to claim  
17 that this product definitely or significantly reduces  
18 bacterial contamination in the unit, as opposed to  
19 potentially reduces bacterial contamination, they might have  
20 to show that, I guess. Isn't that right?

21           DR. EPSTEIN: You see, the issue here is that the  
22 legal standard is adequate scientific data. We don't have  
23 to hold the companies accountable for clinical trials. The  
24 question is--and Jaro, I think, stated it precisely--if they  
25 satisfy the design criteria as put forth by FDA, should we

1 permit a superiority claim for safety compared to other  
2 available collection systems.

3 I think we have heard some arguments that maybe  
4 that is not so wise, which could be the conclusion of the  
5 voting. But that is the question. That is the very  
6 question.

7 DR. BOYLE: I am concerned just as little bit in  
8 terms of not actually the wording but the interpretation of  
9 the wording because the interpretation of a claim that it  
10 significantly reduces bacterial contamination is going to be  
11 that it significantly reduces morbidity or mortality, which  
12 is something that has not been demonstrated here.

13 So my concern is not just simply the terms but how  
14 those are going to be interpreted and how it is going to  
15 marketed. So that would be my concern.

16 DR. NELSON: A brief comment?

17 DR. BINION: Steve Binion, Baxter Healthcare. I  
18 just wanted to clarify and go back to the Advamed meeting  
19 last November in which manufacturers were invited to  
20 participate. This was one of the points that came up.  
21 There seems to me, at least among some of the committee  
22 members, to be a presumption that blood-pack-unit or device  
23 manufacturers are interested in this claim.

24 I think it is worth noting that one of the first  
25 issues industry put on the table at that meeting was that

1 the requirement for significant additional development  
2 expenses associated with clinical trials because, if it were  
3 a necessity of offering this technology to have it tied to  
4 this type of claim is, frankly, a large disincentive for at  
5 least some manufacturers.

6 The purpose for participating here today was at  
7 the request following up on inquiries from customers in the  
8 U.S. as well as discussions with CBER to speak to the  
9 feasibility aspects of making this type of collection system  
10 which is already in use outside of the U.S. available in the  
11 U.S.

12 So, at least I would ask you to consider the fact  
13 that some manufacturers may not have even entertained some  
14 sort of additional safety claim on this basis. Certainly,  
15 there does seem to be, and that was really the point to my  
16 question, for CBER seeking clarification of the regulatory  
17 process. If this technology is desired for implementation in  
18 the U.S., then there should be technical and manufacturing  
19 standards that could be put in place that would allow it.

20 DR. EPSTEIN: I would flip that around. The issue  
21 is really the converse. If we think that there is a valid  
22 labeling claim for improved safety, that we would permit,  
23 without demanding clinical trials--we are, in fact, creating  
24 an incentive for the bag manufacturers to go ahead and do  
25 this because they can make that claim.

1 I understand the point that Steve made, but FDA  
2 was looking at it the other way around.

3 DR. KLEINMAN: I think if there were sufficient  
4 European studies that nailed this down, they maybe you could  
5 extend the claim to anybody who could take off 30 ccs.  
6 There is only one study published. So what you are saying,  
7 is there one study published, which didn't do any direct  
8 measurement, which is sufficient to support the claim.

9 I don't think that study is sufficient to support  
10 the claim for that particular bag. So maybe the question  
11 should be, if there were to be more studies from Europe and,  
12 apparently, there are some under way, that then would  
13 provided a critical mass of data, maybe it wouldn't be  
14 necessary to duplicate those studies in clinical trials in  
15 the U.S.

16 But I think, as of today, where is the data?  
17 There is no data there.

18 DR. NELSON: The question uses the word "available  
19 European studies." Let's vote on this. How many believe  
20 that--how many want to vote yes to this?

21 DR. STRONCEK: Before we vote--I am going to vote  
22 yes for this, but there is a reason. I agree with everyone  
23 who says the data is not good and there is not much data.  
24 But, the fact of the matter is, if you wanted to do this  
25 study in the U.S. and you are a small center, there are no

1 bags available. You can't just go buy a bag that would be  
2 used in Europe and collect blood here for transfusion.

3 So, a vote against this is really a huge  
4 disincentive for the availability of this product in the  
5 U.S. I think a vote for it would encourage manufacturers to  
6 do it. It is unfortunate that is the way the system works,  
7 but if we vote no, this bag just--I don't suspect this bag  
8 will become available.

9 DR. NELSON: Sue Stramer?

10 DR. STRAMER: My comment has nothing to do with  
11 this question so perhaps you should vote first. I want to  
12 recall a previous comment I made regarding question No.1.  
13 So I can wait after at vote for question No. 2. I am  
14 patient.

15 DR. DODD: Roger Dodd, American Red Cross. It  
16 seems we have heard a lot of interest from the potential  
17 users of this product and it might be possible that they are  
18 the ones that should want to make the claim.

19 What the committee needs to do is to make sure  
20 that the product is available so that that claim can be made  
21 by those who really have most interest in making the claim  
22 that they are improving the safety of blood supply.

23 DR. NELSON: So how does that mean we should vote  
24 on this?

25 DR. DODD: You should vote to--I don't know how



1 you vote on that question in that context.

2 DR. NELSON: Let's vote in any case. I don't  
3 think this vote should be interpreted to mean that we don't  
4 like the idea or that we don't like the bags, but we are  
5 voting on what the FDA asked us to vote on, I guess. How  
6 many would vote yes, that the available European studies  
7 provide sufficient data to support the claim that diversion  
8 of 33 ccs significant reduces the bacterial contamination of  
9 the final blood product.

10 [One hand raised.]

11 DR. NELSON: How many would vote no?

12 [Show of hands.]

13 DR. NELSON: Industry?

14 DR. SIMON: No.

15 MS. KNOWLES: No.

16 DR. SMALLWOOD: The results of voting on question  
17 No. 2; there was one yes vote, thirteen no votes, no  
18 abstentions. Both the consumer and industry representative  
19 agreed with the no vote.

20 DR. NELSON: Maybe we could ask the question, "We  
21 wish that the available data would support the use of this  
22 good idea," or whatever.

23 So, then, finally; if the studies are not  
24 adequate, what kinds of studies performed in the U.S. would  
25 be needed for such a claim?

1           Here, we get into the conundrum, if there are no  
2 bags, then there won't be a study. But it would seem to me  
3 that we wouldn't need to demonstrate a mortality endpoint  
4 but that if we could show, in whatever number it took, that  
5 there was a reduced bacterial contamination, even if they  
6 were Propioni bacteria or whatever, this would be enough to  
7 make the claim.

8           But I don't know how many bags would need to be--I  
9 think it would be feasible to do this if the bags were  
10 there. With Paul's concern, maybe the incentive of having  
11 an adequate volume and not having to get rid of units and  
12 other things would make this feasible or attractive.

13           I don't think the cost--it doesn't sound like the  
14 cost would be major to switch to this, but I don't know.

15           DR. CHAMBERLAND: Just following up on Steve  
16 Kleinman's comment, question 3, or whatever, suggests that  
17 the studies would have to be performed in the United States.  
18 I am not sure that the studies would have to be performed in  
19 the United States. If good data could be obtained in Europe  
20 or other sites where these bags are being use, and that  
21 could be examined, I agree with Steve that there is an  
22 overall paucity of data, at least that have been presented.

23           So if there are more data available, I am not  
24 necessarily thinking it has to be derived in the U.S.

25           DR. NELSON: I would agree. I think maybe this is

1 the first time today that we are going to change the FDA's  
2 question. We used to do that all the time. Today, we  
3 didn't do it.

4 But I would say if the studies are not adequate,  
5 what kind of studies performed anywhere, or what kind of  
6 studies would be needed for such a claim. They could be  
7 performed wherever. If the data showed it, it didn't have  
8 to be in the U.S.

9 Do people agree with that change?

10 DR. SCHMIDT: I think I hear you talking clinical  
11 studies, the effects on people, rather than just in vitro  
12 studies.

13 DR. NELSON: In the bag. That is what I--I would  
14 not require clinical studies.

15 DR. SCHMIDT: Would you accept artificially in the  
16 bag?

17 DR. NELSON: Possibly. Yes; that might work.

18 DR. DODD: Ken, the committee has been supportive  
19 of the notion, it has been supportive of the criteria that  
20 the FDA have laid out, and it would appear to me that this  
21 might offer the option of the FDA approving bags that meet  
22 their design criteria for sale and then encourage the  
23 development of what are now phase IV clinical trials which  
24 is, basically, the mechanism for inactivated products.

25 Thus, data would emerge from usage of the product

1 which could then subsequently be used to provide a safety or  
2 labeling claim. I think there is enough interest among the  
3 users to take a product that is approved by whatever  
4 mechanism the FDA chooses.

5 DR. NELSON: Yes; I agree. We don't need to vote  
6 on this, do we? This is an essay question. [Laughter.]  
7 Let me just turn it into a multiple choice, or a yes-or-no,  
8 and say, does the committee agree that, if further studies  
9 are done, that manufacturers could make this claim and that  
10 we would encourage studies to be done on this issue.

11 After all, bacterial infections are quite  
12 important. They are, as pointed out, more common now than  
13 viral infections in transfused patients.

14 DR. MITCHELL: I am still concerned that I think  
15 that there should be something to demonstrate some kind of  
16 clinical benefit in addition to in vitro. And I don't know  
17 exactly what that should be and I don't necessarily think  
18 that you need to follow 3 million patients and see what kind  
19 of infections they get.

20 But I think I would want something showing that  
21 there is some kind of clinical significance to in vitro  
22 testing.

23 DR. VOSTAL: I wonder if I can get a clarification  
24 on the studies that we were talking about. There could be  
25 two different kinds of in vivo studies. One would be where

1 you use donors and collect a blood product and test that for  
2 bacteria. The next step would be looking at the transfused  
3 product and the outcome in the transfused patients.

4 Which study would be--would the first study be  
5 sufficient, or would we need to go all the way to  
6 transfusing patients and following morality?

7 DR. NELSON: I think you could infer that if  
8 pathogenic bacteria were in a unit that was to be  
9 transfused, whether it be platelets or whatever, that that  
10 probably isn't good. But the numbers to show morbidity,  
11 mortality, et cetera, would probably be prohibitive in order  
12 to get the product out.

13 DR. KOERPER: I think the first step is just to  
14 show that when the blood is collected that there is a  
15 reduction or, hopefully, zero bacterial contamination in the  
16 final bag that might ultimately be transfused into someone.  
17 Then, if the Red Cross and AABB, as they are collecting data  
18 on these reported cases of sepsis and/or death, if one of  
19 the questions they could ask is was there a pre-donation  
20 collection port, or not, however many million collections  
21 there are a year.

22 You need that denominator because the number of  
23 fatal ones is so few per year. So, if that extra one piece  
24 of information could be collected on each fatal or serious  
25 septic episode, in terms of whether there was a pre-

1 collection blood--I think that is the only way we can answer  
2 the risk of fatality and serious sepsis.

3 DR. NELSON: As I remember the data, though, on  
4 platelets, it was one in 3,000 that had bacterial  
5 contamination?

6 DR. KOERPER: Right; which is different than  
7 sepsis and death.

8 DR. NELSON: So a study of 20,000 or 30,000 would  
9 be able to answer the question, probably--I am not a  
10 statistician but that is my guess--about the bacterial  
11 contamination question. Once that was answered, then the  
12 manufacturer could say, we have shown that it reduces  
13 bacterial contamination. That would probably be enough for  
14 it to be widely used, I think. So I don't think that is a  
15 prohibitive kind of study.

16 DR. BINION: Steve Binion, again, from Baxter. I  
17 just wanted to, I guess, further clarify Baxter's  
18 willingness to collaborate in the potential availability of  
19 this sampling technology for blood-pack units in the U.S. is  
20 not predicated upon any blood-pack unit product-superiority  
21 claim.

22 In fact, what I was trying to point out earlier is  
23 that if that type of data became the barrier for  
24 introduction of this technology in the U.S. that, yes, that  
25 would, at least from one manufacturer's perspective, present

1 a significant disincentive to making this technology, which  
2 is already available elsewhere, available for use in the  
3 U.S.

4 Thanks.

5 DR. HALEY: Rebecca Haley with the American Red  
6 Cross. We will not stop collecting the data that we have in  
7 the American Red Cross. Again with approximately one in  
8 60,000 septic episodes for platelet transfusion and one in  
9 250,000 fatalities, it will take a little while.

10 I don't think anybody in their right mind would  
11 set up a randomized study where you left the bacteria in  
12 this one and took them out of that one. We are interested  
13 in getting a safe product a whole lot more than we are  
14 interested in getting some kind of claim.

15 What I tried to show is that there are a great  
16 many things that are ripe for the taking out. If we could  
17 start with that and then do the next step when it comes up,  
18 we will continue to collect our information and continue to  
19 report it whenever we have an opportunity.

20 I am sorry I was out of the room because we were  
21 talking about the BaCon study which, by the way, has lost  
22 its funding in the CDC because nobody was interested enough  
23 to continue that. That was another way to keep up with that  
24 information.

25 DR. NELSON: But I don't think the Red Cross's

1 studies of septic episodes--without a trial, nobody--I think  
2 the only feasible way that I see of doing this is just  
3 measuring how much bacteria there is in the bag and a  
4 certain number with this collection system and without it.

5 I think that kind of study is quite feasible. I  
6 think a mortality or a morbidity study randomized trial, I  
7 don't see that that is particularly feasible.

8 DR. HALEY: I agree.

9 DR. CHAMBERLAND: Perhaps Matt or others would  
10 like to speak to this a little bit more but, while it is  
11 true that national surveillance, vis a vis the BaCon  
12 project, is, at this point, no longer an option, for  
13 something like this, that may actually not be the best way  
14 to try and evaluate the impact of an intervention because,  
15 even BaCon, we acknowledge that there clearly was  
16 underreporting, underrecognition.

17 So other approaches might include really  
18 developing much more intensive surveillance in a sample of  
19 hospitals or other settings and comparing pre- and post-  
20 intervention and looking to see if you see any reduction in  
21 events. I don't know, Matt, if you wanted to comment on  
22 that.

23 Dr. KUEHNERT: I think you said it very well. I  
24 think that BaCon, one of its chief limitations is that it  
25 does not gather information at the hospital level to the



1 point where I think it would be adequate to evaluate an  
2 intervention like this.

3 I think you really have to have a person or group  
4 of people who do active surveillance at the hospital level  
5 rather than passive reporting. But that is not to say it  
6 needs to be a randomized blinded trial, but that it needs to  
7 be active surveillance at the hospital level to really be  
8 effective.

9 DR. NELSON: Jay, have we sufficiently addressed  
10 this?

11 DR. STRAMER: Just one last thing. This was for  
12 Toby, now that he just walked out. Anyway, on his question  
13 regarding qualification of assays, I was reminded, and this  
14 was before my time at Red Cross, that the Red Cross had  
15 looked at an in-line pouch previously for a different  
16 purpose. But when we looked at the rates of some of our  
17 viral-marker tests, it did show significant increases.

18 So I think we would want to validate any changes  
19 in the tubes and the processes that we use before we just--

20 DR. NELSON: With NAT testing?

21 DR. STRAMER: No; this happened to be with  
22 syphilis, but we wouldn't want to lose that many more donors  
23 because of syphilis false-positivity. I just remind us that  
24 we would want to do validations.

25 DR. NELSON: Tomorrow, we will start at 8:30 and,

at

1 theoretically, done by noon. So that probably means later.

2 [Whereupon, at 6:55 p.m., the meeting was

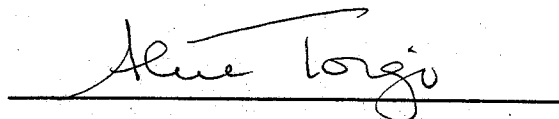
3 recessed, to be resumed on February 16, 2000, at 8:30 a.m.]

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## C E R T I F I C A T E

I, ALICE TOIGO, the Official Court Reporter for Miller Reporting Company, Inc., hereby certify that I recorded the foregoing proceedings; that the proceedings have been reduced to typewriting by me, or under my direction and that the foregoing transcript is a correct and accurate record of the proceedings to the best of my knowledge, ability and belief.

A handwritten signature in cursive script, reading "Alice Toigo", is written above a solid horizontal line.

ALICE TOIGO