

1 knowing how often in the occurrence of Lyme Disease,
2 OspA is actually encountered. Certainly as a
3 construct for the vaccine.

4 I think this is a very unique vaccine and
5 I think a lot of thought went into the design and I
6 think it was very clever. But what is the rate of
7 human encounter with OspA and when.

8 We certainly heard about the issue of it
9 being -- well at least some immune response to it
10 being produced later in the course of illness. But
11 I'd certainly want to know more information about
12 that.

13 The whole issue of basic research on OspA
14 I think is very important given what we now are
15 learning more about regarding the whole issue of
16 autoimmunity. And then the issue of enrollment in the
17 Phase IV Study.

18 One question I would have would be: What
19 can be done to enhance the enrollment without
20 compromising the quality of data? Do you have to go
21 to smaller HMO's that have smaller databases but
22 nonetheless have high quality data? Would that be the
23 type of data that would be needed?

24 You have to balance that with the HMO's
25 that may have the appropriate quality data may have

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1 been asked to participate in a lot of other studies
2 because of the very nature of the quality of their
3 data. So, clearly, there is a dichotomy here but
4 perhaps one that should be explored a bit further.

5 And then the other issue I think that I
6 had some questions about is the whole issue of
7 reactivation. Some of the Western Blot patterns
8 certainly presented in a bit anecdotal way in the
9 information that we had to read are very interesting
10 and I'd want to know more about that.

11 CHAIR DAUM: Thank you. Dr. Coyle?

12 DR. COYLE: Well, I was here two years
13 ago, and the safety profile has changed, and it has
14 changed for one real reason. Although the information
15 presented on the 8,000 or so that have had the vaccine
16 suggests this seem to be safe in the majority of
17 individuals.

18 There is now, which wasn't a few years
19 ago, the suggestion that in a minority of individuals,
20 a few of those this vaccine can produce a devastating,
21 a generalized chronic pain syndrome that really
22 disrupts lives. And there was not a hint of that at
23 all.

24 And the only data for that are the
25 testimonies that I've heard. Because it's not

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1 captured anywhere else. So I think that's of concern.
2 That wasn't raised two years ago in my opinion and
3 that indicates that there's a subset of individuals in
4 whom it's a bad thing to get the vaccine. That it can
5 be potentially a very devastating thing.

6 I think that the Cohort Study -- the
7 reality is it sounds that they're not going to get
8 25,000 patients in a reasonable time frame. So
9 something has to be done, something has to be done to
10 increase the numbers because it just doesn't sound
11 like they are going to get it.

12 Secondly, I think we need to learn more
13 about the sorts of patient testimonials that we heard
14 or heard about from letter. We know very -- we know
15 nothing about these patients.

16 So let's get a registry of these patients
17 to try to figure out what seems to be the background
18 to try to cull out a group that may be at risk where
19 you don't want to give this vaccine.

20 Finally, the preliminary, very sketchy, I
21 mean 30 pregnant patients, and we have data on a
22 minority of them and the data that we have available
23 is very bothersome. I think we need to get some real
24 pregnancy data. That should be a real push. That's
25 disturbing.

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1 And finally, I think something does need
2 to be added to the patient insert -- to the package
3 insert here. Even if we don't have clear cut data,
4 the fact that it's now been raised that in, granted
5 perhaps a very small minority, but in a small
6 minority, this can be a bad thing to take,
7 potentially.

8 It needs to be put in somehow that this
9 has been raised as a question and investigations are
10 ongoing, etcetera, so that people can know about it;
11 and physicians.

12 DR. LUFT: I'll just make a couple of
13 comments because I've commented enough today. If you
14 look at the sponsor's data, there's no difference. I
15 think that that's what they've stated and they showed
16 us the data. There's no significant difference.

17 What's the problem? The problem is --
18 it's a problem of perception and a problem of
19 confidence. And I think that that's a really big
20 problem.'

21 I think that everybody in this room whose
22 involved with vaccine design or administration realize
23 that that's a very large problem. It's a problem of
24 perhaps why this vaccine has such poor uptake within
25 the community.

1 And it goes on both sides now. My feeling
2 is I was here two years ago. There were certain
3 suggestions that were made. My expectation is that
4 the company, that the sponsor, would have been very
5 vigorous in doing it. Actually they got a gift.

6 They were approved for a vaccine for this
7 disease which was really very unique in many ways.
8 It's mode of action was unique. It was the first
9 lipoprotein that was licensed, that was given an
10 indication.

11 It was a new -- it was all new -- and you
12 would have expected -- and it was done in record time
13 if I remember. It was really done in a very short
14 time.

15 And I'm disappointed today. Because I
16 hear some information here and I hear some information
17 there. And I don't hear good data. We really are
18 sitting in a situation in a sea of just what we feel.
19 Because no one is giving us data.

20 And the same thing could be said on the
21 science part of it. Two years ago the group described
22 the issue of the whole LFA. DR4 was something that
23 was there. It's now being talked about as if it's
24 gospel.

25 There was nothing that came out, or very

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1 little that I know of that's come out since that time.
2 There hasn't been anybody that has really come out and
3 validated that work. That has looked at this patient
4 population, etcetera, etcetera.

5 My greatest fear is that this is a big
6 disease. When we talked about, I think Dixie was
7 talking about that his perception was that there were
8 a lot of people that were suffering. And I can attest
9 to the fact that in our community, that Lyme disease
10 was and is a very big issue.

11 It's not that there is no need for a
12 vaccine. What I think there is a need for is a
13 vaccine that people have confidence in. There's a
14 need for a vaccine that, once it's given its license
15 or indication that there will be ongoing research and
16 surveillance, that will meet the privilege of being
17 out there and the public being administered to -- to
18 patients. I just don't think that's being done.

19 So I know there have been a number of
20 suggestions that have been made as to how we can more
21 vigorously and actively get to the answer as to
22 whether adverse events are actually occurring or not
23 actually occurring.

24 And I support that wholeheartedly. I
25 support much smarter people than me making those

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1 suggestions on how those types of studies should be
2 done.

3 But at the end of a short time we should
4 be able to come back here and get real information and
5 not feel that we're on a ship that's sort of in the
6 middle of a storm.

7 DR. RAY: I want to I want to comment
8 briefly from an epidemiologic perspective. First, I
9 think there is a real basis for safety concern with
10 this vaccine. Back of the napkin calculations suggest
11 that 5 to 6% of current VAERS reports are reports for
12 this vaccine which seems large given that its uptake
13 is less than expected.

14 So I think there is a basis for safety
15 concerns.

16 Second, I don't think that the post-
17 marketing studies that are planned are going to
18 achieve their power objectives. And for that reason,
19 I think studies with greater precision are needed be
20 they Cohort studies or a variety of methods or case
21 control studies.

22 DR. DATTWYLER: Well, I was here two years
23 ago and as a matter of fact I was sitting in this seat
24 and I also had the last word at that time.

25 CHAIR DAUM: I have the last word.

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1 DR. DATTWYLER: Oh you have the last word.
2 I meant of the panel. You know I totally agree with
3 what most of the people have said. I think that Dr.
4 Snider's point of the atmosphere at that meeting
5 versus the atmosphere in this meeting is very
6 important to realize.

7 And ultimately physicians have to decide
8 what's best for their patients. And to do that in an
9 intelligent way you need to know the risks and the
10 benefits.

11 And as I sit here, like everybody else,
12 have no greater feeling for what are the risks of this
13 vaccine than I did two years ago. And that's bad.
14 And I totally agree with what Dr. Myers said and what
15 Dr. Loft said and everybody else is that we need to
16 get that data so we can plug that into a risk-benefit
17 analysis and make an intelligent choice for our
18 patients.

19 Vaccines and drugs, we know can have
20 adverse reactions. If you know what the adverse
21 reactions are and the incidence of those adverse
22 reactions and then you know what the risk that your
23 patient runs, then you can make an intelligent choice
24 and right now we can't make an intelligent choice. So
25 I agree that we need to, like everybody else, that we

1 need more data.

2 CHAIR DAUM: Dr. Ellenberg.

3 DR. ELLENBERG: Yes, I'm sorry. I just
4 want to make a quick clarification on the back of the
5 envelope calculation. I think we have somewhat over
6 1,000 reports, is that right, on Lyme Disease vaccine.
7 We have well over 100,000 total reports in the
8 database. We've been getting 10 to 12,000 reports a
9 year. So it would be more like under one percent I
10 think of the total.

11 DR. RAY: Well let's think it through
12 though. You get about 10,000 a year, according to the
13 documentation. And there have been 1,100 reports
14 approximately in two years so that is 550 over 10,000.

15 DR. ELLENBERG: Okay. That's not what I -

16 -

17 DR. RAY: I would come up with about 5
18 percent of current reports or 5 to 6 percent are for
19 this vaccine which seems to me high.

20 CHAIR DAUM: Well just to sort of anchor
21 and to try and not be repetitive. I, of course, was
22 here two years ago also and am grateful to Dixie and
23 others for making the comment about how different the
24 atmosphere was then.

25 But I still don't feel that it's

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1 appropriate to apologize for that decision. I
2 actually think it was a correct decision to go
3 forward.

4 I'd like to, before I say anything, remind
5 everybody that this meeting we had today was very
6 unusual in that the FDA has called us together to talk
7 about a licensed product -- to get our sense of where
8 we think the safety data are. And I think that's a
9 tribute to the agency's concern.

10 I'm also profoundly moved by the patients
11 and families who took the time to come here and talk
12 to us. But I had some concerns about the safety
13 profile two years ago and some concerns about the
14 efficacy two years ago and I believe I'm on the record
15 as having articulated those.

16 I'm not sure whether I believe that there
17 is convincing evidence of new safety concerns or not.
18 And that may be a statement of where things are and
19 perhaps should not be. I can't accept the notion that
20 this study can't be done anywhere else.

21 The case control study is going forward so
22 slowly because there are no other quality sites to do
23 it and I am very disappointed that that hasn't gone
24 forward more quickly.

25 I applaud Dr. Ball and colleagues for

1 taking VAERS reports which are very difficult to make
2 head or tail out of, separate numerator data from
3 denominator data and trying to nest a case control
4 study within that to look at some important issues as
5 well.

6 I'm disappointed that we're not further
7 ahead I guess in understanding the safety issues of
8 two years ago and remain unsure of whether we've
9 deteriorated or behind or not. I didn't hear
10 convincing evidence that there are major new concerns
11 despite all the comments that were heard.

12 The package insert does need to be
13 updated. At the very least reflect issues like
14 hypersensitivity that have come to light since two
15 years ago, but they appear to be relatively minor in
16 the overall scheme of things.

17 I think the people who came to talk to us
18 today from all over the country -- that their comments
19 need to not go unheeded. And what I would suggest is
20 to begin to see if what Dr. Lufts said is true. Are
21 those reports not in any of the databases? Are they
22 not in the manufacturers pre-licensure database? Are
23 they not in the VAERS database?

24 I would like to really find out whether
25 that's so. Because if your conclusion is correct that

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1 they're really not, then something is wrong with our
2 system. Something is really wrong with our system.
3 And, once I've made that determination, I would then
4 go forward designing studies to address some of the
5 diverse complaints that the patients and their
6 families had, which by themselves, need some thought
7 as to how frequently they're occurring.

8 The information sheets takes a lesson out
9 of the pediatric vaccine book and patients who take
10 this vaccine or any vaccine have got to be informed of
11 what they're getting into.

12 And so, I highly applaud that and believe
13 that Dr. Manley's comments are difficult to implement
14 because we can't standardize what patients are told in
15 this country but nevertheless, having the sheet
16 available like that, would go a long way to providing
17 the framework for a physician or a provider to have
18 dialogue with a patient.

19 So I think that we've really had a
20 wonderful meeting here. We've heard lots of points of
21 view. I think the call for Dr. Ferrieri and others
22 that more basic science needs to be done to address
23 the issues that are unknown about the pathophysiology
24 of this disease are beyond the scope of dealing with
25 just the vaccine -- but also intimately tied up with

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1 it. They can't be neglected. But I'm not sure we can
2 solve those problems in this room.

3 I want to thank everybody who took the
4 time to share views with us and debate these issues
5 with us. I think we've had a wonderfully informative
6 day. Before we stop, Dr. Ellenberg will have the last
7 word.

8 DR. ELLENBERG: Well, I just want to say
9 that that certainly some, perhaps many, or even most
10 of the stories that we've heard today, have been
11 reported to VAERS and they are included in the
12 summaries that Dr. Ball presented and I would
13 certainly urge that anybody here who has not made
14 those reports, do, because that's the only way we know
15 what is happening if those are reported.

16 As Dr. Ball described, he is going to be
17 following up on these reports to try to and have a
18 better understanding and a grasp on all of these types
19 of reports that we have received.

20 CHAIR DAUM: Thank you for clarifying that
21 and this meeting is adjourned.

22 (Whereupon, at 5:25 p.m. the above-
23 entitled matter was concluded.)
24
25

CERTIFICATE

This is to certify that the foregoing transcript in the
matter of: Vaccines and Related Biological Products
 Advisory Committee

Before: DHHS/FDA/PHS/CBER

Date: January 31, 2001

Place: Bethesda, MD

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


