

1 getting some kind of joint understanding of what needs to
2 happen. So, this is not just for Conchita's group, but
3 for everyone.

4 If there are national organizations, whether of
5 institutions like hospitals or groups or interest groups
6 or organizations of individuals, we need to know who they
7 are and know which ones of you are connected to those
8 groups, so please, if everyone would pay attention to
9 that and give us feedback about that, then, what we can
10 do is ask those of you who are connected to help be the
11 bridge to the organizations.

12 Anything else anyone wants to add or any
13 questions about recommendations that this group has made?

14 [No response.]

15 DR. GORDON: I wanted to get filled in a little
16 bit about the idea of coverage, if you have gone any
17 further in the idea of coverage for all therapies for
18 which there was good evidence in peer-reviewed journals,
19 any thoughts about how one would organize that process at
20 this point?

21 DR. FINS: I think the emphasis is really on
22 peer review, and not necessarily peer-reviewed journals,

1 but that it is scientifically valid, and in my personal
2 view, that it has to be as efficacious and as safe as
3 things have been demonstrated to HCFA to be worthy of
4 reimbursement, so there is a kind of a comparability
5 standard is what I think some of us in the subcommittee
6 endorsed. I don't think it was universally agreed upon.

7 DR. GORDON: How would that tie into the
8 recommendations that have been made by several people,
9 and most recently by Max, about having the database, do
10 you see that as coming out of that?

11 DR. FINS: The thing that I think we probably
12 need to spend more time on thinking about is how do we
13 operationalize that global principle, and we did say, and
14 I missed part of Conchita's presentation, but that there
15 is going to be a mechanism of peer review that would look
16 at these RFAs for demonstration projects that would have
17 expertise of the methodologists, the traditional and the
18 CAM providers, and that group would in a sense by
19 endorsing the project would also help to endorse whatever
20 results came out, which would then lead to an
21 accumulation of data that would then lead to HCFA and
22 other funders saying we have reached a threshold and

1 crossed a threshold that allows for reimbursement.

2 I think it is really the incremental approach
3 that Max laid out cogently before that I think we need to
4 sort of operationalize.

5 DR. GORDON: Julia, did you want to add
6 something?

7 MS. SCOTT: No.

8 DR. GORDON: Joe.

9 DR. PIZZORNO: As I think you astutely
10 observed, realized this was a topic of considerable
11 discussion, and on the one hand, we could recommend to
12 all the federal agencies to utilize language, such as
13 that in Washington State, to cover every category of
14 provider that is licensed in that state.

15 Obviously, ultimately, that is where we want to
16 get, but our thought was rather than to establish that
17 social mandate, get some hard data first and base it on
18 evidence, and that by specifically requesting that these
19 federal agencies collaborate to develop the kind of
20 evidence that is needed, we feel that it would provide a
21 much stronger foundation for long-term success.

22 DR. GORDON: Okay, great. Thank you.

1 George, do you want to present?

2 **Group IIA: Coverage and Reimbursement for CAM**

3 MR. DeVRIES: Thanks, Joe.

4 Our charge was to consider coverage and
5 reimbursement for CAM by employers and health plans and
6 state agencies, and we started with the question what are
7 the barriers, why are health plans not voluntarily doing
8 it today, why are employers not mandating coverage for
9 CAM as part of their benefits.

10 We felt like let's understand what the barriers
11 are first before we can make recommendations. So, we
12 went through really a list, and first is education and
13 information that perhaps the purchasers don't necessarily
14 have all the information necessary to make a good
15 decision.

16 Cost. We have been hearing that for the last
17 couple of days, that the additional cost of adding CAM is
18 unacceptable, that there may be perceived relationships
19 with current providers which may cause them hesitancy to
20 cover CAM.

21 Current belief systems. Perceived lack of
22 availability of providers. Access to services. Lack of

1 personal experience by the buyers of CAM or by the buyers
2 of health care benefits. Quality - that there is a
3 perception on the part of buyers of benefits that CAM
4 perhaps isn't safe or not clinically effective for
5 treatment of certain conditions. Providers, are they
6 licensed, and employer liabilities.

7 As we really began to go through this and began
8 to understand what the barriers are to providing
9 reimbursement and coverage, it is coming down to bottom-
10 line issues of quality, cost, access, and education,
11 which if we think about what our charter is as a
12 commission, we can really begin to qualify that the
13 issues related to reimbursement really come down to these
14 major issues.

15 We are making the assumption that we are not
16 moving from the perspective that CAM benefits are
17 mandated by health plans or employers. We are making the
18 assumption that this is an incremental approach where we
19 are providing the proper foundation for the purchasers of
20 health care to make decisions based on the information
21 they have to go ahead and include CAM voluntarily as a
22 covered benefit, so it is a different approach, which is

1 a more incremental approach.

2 First, areas related to cost. The key issue
3 related to cost as you talk to health plan purchasers,
4 they are going to say CAM is an additional benefit, it is
5 going to cost me additional dollars.

6 Now, I think for those who are involved with
7 CAM, we have to ask the question is it going to cost more
8 money, is it going to cost less money, is it going to
9 save money, is it the same, or even if it does cost more,
10 how much more. We don't understand that.

11 We have good research out there that says here
12 is how much it takes if a chiropractor treats a
13 particular patient versus a medical physician, but that
14 doesn't tell you cost effectiveness in the context of
15 saying here we have a pooled population, and they are
16 covered under these health benefits, which provide
17 coverage for general medical.

18 We have another pool of the population that has
19 coverage for general medical plus they have CAM benefits.
20 What is the cost of providing those benefits for each
21 pool of patients, and the recommendation is that we truly
22 need cost effectiveness research, cost effectiveness

1 research that will say it either doesn't cost more to add
2 CAM, it saves money to add CAM to a benefit plan, or
3 perhaps here is the incremental costs.

4 The recommendation is really that this research
5 can happen through AHRQ, it could be demonstration
6 projects through the state, through HCFA, through
7 Medicaid, NIH, or NCCAM. In fact, one of NCCAM's request
8 for grants recently was related to cost effectiveness of
9 chiropractic.

10 There is even the potential for private
11 foundations to be involved in this type of research, that
12 these represent both private and public initiatives, and
13 bottom line is we are looking at comparative health
14 research.

15 It is still a concern on the part of the health
16 purchaser who is basically saying I am not convinced that
17 CAM is either safe or effective, and so really, it is
18 continuing on the recommendation that there needs to
19 continue to be substantive research on safety and
20 effectiveness of CAM, and that really this is happening
21 through NIH and NCCAM, through CDC field studies, through
22 systematic reviews by AHRQ, and Cochrane Collaboration.

1 So, this is really the issue. Again, we are
2 dealing with foundational issues related to
3 reimbursement, what is going to cause and encourage and
4 support reimbursement of CAM services, and what are the
5 barriers.

6 A review of DSHEA, this was encouraged because
7 at this point, there is various perspectives. DSHEA
8 doesn't go far enough to protect quality or properly
9 monitor marketing of dietary supplements.

10 There are others on the other side who would
11 argue it does go far enough, it is just that the
12 regulatory agencies that are responsible for monitoring
13 these activities aren't doing their job as is required
14 under DSHEA.

15 Finally, probably one of our most controversial
16 topics was the issue of licensure. We heard the other
17 day, Dr. Korn, the chief medical officer of Blue
18 Cross/Blue Shield Association, basically state a theme,
19 which is basically saying if providers aren't licensed,
20 they will not be covered as a benefit.

21 So, this comes back to a reimbursement and
22 coverage issue, that licensure is an issue of coverage

1 and reimbursement. Without it, you cannot get coverage.
2 This is truly a black and white issue in the sense that
3 even regulators, like Department of Insurance, Department
4 of Managed Health Care, who license benefits plans, will
5 not approve coverage or insurance plans for non-licensed
6 practitioners.

7 So, I won't say there is an agreement to
8 recommend a specific statute coming out of our group, but
9 I think there is an understanding that this is an issue
10 that, as we look at a preliminary report, and
11 understanding states rights, understanding license and
12 regulate health care providers, the federal government
13 doesn't do that.

14 This commission needs to be careful of any
15 recommendations it makes, but it is recognizing that
16 there needs to be the recommendation and encouragement,
17 really, the encouragement to states to pursue state
18 licensure for those provider groups that are safe and
19 effective.

20 There is actually a very good recommendation
21 also, and I guess this is particularly happening in the
22 State of Illinois, where instead of the state boards,

1 having separate state boards for chiropractic,
2 acupuncture, and various other professional groups, it is
3 a State Board of Complementary Health Care, and that is
4 an interesting model to pursue.

5 Access. Again, the issue of licensure is a
6 critical issue under coverage and reimbursement, and
7 there is also a perceived lack of availability in terms
8 of access to CAM services, but I think that really leads
9 us to education.

10 The recommendations related to education are
11 really multi-tiered. First, there is a recommendation
12 that we believe would help in terms of improving coverage
13 and reimbursement of CAM services, that the CAM
14 perspective be included in decisionmaking and advisory
15 capacities in various state and federal agencies, that
16 really there is an expert multi-disciplinary perspective,
17 it is a professional perspective that is being given to
18 that process.

19 We heard a recommendation this morning, which
20 was recommendation that NIH/NCCAM maintain an Internet
21 site, which becomes a repository for CAM research data
22 and information, that that can provide a separate source

1 of information that an employer can be referred to when
2 they have questions regarding quality, everything from
3 quality, safety, efficacy, licensure, cost, that this
4 would provide excellent resources for those buyers.

5 Finally, there is a continued recommendation
6 regarding broadly based public education. I think
7 ultimately, the concept of the education recommendations
8 are coming back to, that over 40 percent of consumers
9 utilize CAM in a given year, over 60 percent of Americans
10 have used CAM, and those individuals are making the
11 buying decisions, they are the ones who are running human
12 resources and corporate benefits across the country,
13 whether they are Fortune 50, and they are also running
14 the buying and benefits decisions for health plans.

15 If we lay the right foundation, provide the
16 right education, provide the right information, that
17 coverage and reimbursement will follow.

18 DR. GORDON: Thank you very much, George. It
19 was very cogent.

20 Any other comments from anybody from that group
21 at this point? Linnea.

22 MS. LARSON: George was very clear in what we

1 did discuss. I think that we really do need to revisit
2 the issue of licensure in a very, very systematic
3 fashion, and not just -- I feel this way. It is what is
4 the evidence, and do it in five minutes.

5 DR. GORDON: I sorry, it is what?

6 MS. LARSON: What is the evidence, and you do
7 it in five minutes. The other is, it is not simply CAM
8 perspective, it is CAM provider. It has to be someone
9 who has the training and the experience in providing
10 those services, not just someone who laid on new ideas.

11 DR. GORDON: I have a question about licensure.
12 What information do you all, does everybody feel we need
13 to make some recommendations about licensure, what
14 information other than what we have received so far, so
15 that we can begin accumulating that information?

16 DR. FAIR: Well, my opinion on that was
17 basically a negative one. I think it is inappropriate.
18 We start off discussing quality and safety of various CAM
19 modalities, which I thought was appropriate, and then we
20 jumped to licensure as a way of getting the CAM
21 practitioners reimbursed, and I think those are two
22 separate things.

1 I think that our responsibility to the
2 population is, first, to make sure that we are going to
3 recommend something or have some evidence that something
4 is safe and effective before we worry about whether we
5 reimburse the practitioners.

6 I just think that making a recommendation for
7 licensure and spelling out what professions should be
8 licensed is a very shaky step, shall I say, because I
9 think that ones -- and I won't pick any particular one --
10 but I think that there are some of us who would have
11 trouble assuming that some of the CAM practices being
12 used are effective or safe.

13 DR. GORDON: I think the whole issue of
14 licensure is one of the more thorny ones, whether or not
15 we are going to say anything about it and if so, what.
16 So, with that in mind, what else would people like to
17 know about, who else would you like to hear from?

18 Obviously, we will be having this discussion,
19 and one of the things to remember is that the more thorny
20 long-term issues, strategic issues, we are probably not
21 going to make decisions about in the next few weeks or
22 the next couple of months, so that will be for the final

1 report.

2 So, if there is more you would like to know, or
3 people, or kinds of people you would like to hear from to
4 discuss this issue -- yes, Joe.

5 DR. PIZZORNO: Actually, I was kind of
6 surprised by what I just heard. The issue for licensure,
7 while reimbursement is clearly of significance to both
8 the practitioner, as well as the public, far more
9 important is the issue of licensure as protection of the
10 public safety.

11 If we have practitioners out there who are
12 providing services to the public, diagnostic and
13 therapeutic, the public needs to be assured that the
14 services persons provide to them are indeed what they are
15 claimed to be, that they know what they are doing, know
16 how to diagnose, and how to refer properly, and when
17 treating with therapies that are safe and efficacious,
18 can use those appropriately, and that is what licensing
19 is about.

20 MR. DeVRIES: I would like to throw in one more
21 comment, which is when we really talk about licensure, or
22 at least today, I mean we are talking about the fact that

1 licensure, except for the chiropractic profession, tends
2 to be very inconsistent across the country, and that is
3 for I think things that the Commission would say they are
4 very comfortable with, massage therapy, acupuncture,
5 Doctors of Naturopathy, that it is not that they are not
6 licensed in any states, it is that there is inconsistency
7 of licensure, and that there are some states they are not
8 licensed in, so this is not about creating licensure for
9 broad ranges of providers where there is nothing out
10 there.

11 This is about really developing consistency
12 across the country, as well as 50 state licensure
13 ideally, for provider groups that already are pursuing
14 and are licensed under many states. I mean acupuncture -
15 39, massage therapy - many, naturopathy - perhaps there
16 are a dozen. So, that is really the issue at hand, and
17 we do need to narrow the focus on it.

18 DR. GORDON: Tieraona and Joe. One thing I
19 want to say is this is not a discussion about licensure
20 now. This is going to be a much longer discussion that
21 we are going to have to have over time.

22 DR. LOW DOG: You asked actually for

1 information that we might need, and I guess my only -- I
2 am absolutely in favor of licensure, no question, and
3 consistency I think is important, so I know what I am
4 getting as I move from state to state, but I do think
5 that one has to be careful about the language that we use
6 only to remember that, like in New Mexico where I live,
7 there are traditional Mexican-American healers that are
8 not licensed, and there is no way you could license them,
9 and there are Navajo practitioners that do not live on
10 the reservation, that live in Albuquerque, that do still
11 practice their traditional medicines, and there is no
12 school for them.

13 They don't want reimbursement, I mean so they
14 are not looking at that issue, but I would hate to make
15 any kind of step that might put their practice in some
16 sort of legal jeopardy, that could cause them harm.

17 DR. GORDON: We heard that concern expressed in
18 Minnesota, and we have heard it in other places, as well,
19 so thanks, Tieraona, for that.

20 MR. DeVRIES: Please remember that our
21 discussion was related to coverage and reimbursement,
22 what are the barriers to coverage and reimbursement, what

1 needs to happen to help develop coverage and
2 reimbursement.

3 We acknowledged in our group the Practice Act
4 in Minnesota, and that there is non-licensed providers
5 under law being able to practice their professions, and
6 recognizing, though, that those professions practicing
7 without licensure, I think most health plans, I think it
8 is clear none of them would reimburse for services.

9 So, this was a discussion about what it takes
10 to get reimbursed and to cover, not to limit to other
11 providers.

12 DR. GORDON: Joe.

13 DR. FINS: I would just add I think that safety
14 is the first principle, and everything else follows, and
15 I think licensure is linked to safety, and consistency is
16 related to safety.

17 I think that the recommendation that we might
18 want to make is not something that the federal government
19 can do, but we can urge that professional organizations,
20 the disparate organizations within each of the
21 disciplines, to come together and to develop national
22 standards.

1 We had disagreements that we witnessed in front
2 of the Commission, people refusing to talk to each other,
3 and I think that if those entities want to be eligible
4 for reimbursement, they have to develop national
5 standards, and we can't make that happen, but I think we
6 can say that it is something that will promote safety and
7 conceivably lead to reimbursement.

8 People who want to stay outside of the
9 reimbursement stream, people in the various communities
10 that Tieraona alluded to, they don't need to access those
11 dollars.

12 DR. GORDON: Let me just ask the question
13 again. Is there any other information that we need, that
14 we should be gathering about this subject? We have a lot
15 already, as both Tieraona and Joe are pointing out.

16 DR. LOW DOG: Also, Jim, just checking because
17 of the comment that nobody reimburses for their services
18 isn't actually accurate. The VA hospital reimburses or
19 pays and covers for sweat lodges in South Dakota and in
20 New Mexico. There are groups that do cover non-licensed
21 practitioners for certain mental health and social around
22 Native American groups, and so it is not that nobody

1 does.

2 In looking at some of their liability or
3 looking at why they have included that might be
4 interesting if we are looking at licensure.

5 DR. GORDON: I think that is a very good idea,
6 and generally looking at issues of licensure as related
7 to reimbursement, which is kind of the charge.

8 Charlotte.

9 SISTER KERR: The only other input I would want
10 is the international piece that we are going to get, but
11 I want to hear how that is done and what are the values
12 underlying the process and procedures.

13 DR. GORDON: Great. Thank you.

14 Joe.

15 DR. FINS: It sort of segues into the
16 afternoon, but I mean the question of licensure and
17 outcomes and safety is a research question that can be
18 studied, and probably should be studied, before anyone
19 makes a recommendation concretely about it.

20 DR. GORDON: And in line with that, one of the
21 things that we would need to do is to find out if it has
22 been studied either here or in other countries.

1 I just wanted to ask one other question related
2 to access. Did this panel have some recommendations for
3 access for low-income people or for Medicaid?

4 MR. DeVRIES: We talked about demonstration
5 projects in terms of cost effectiveness related to
6 Medicaid on the state basis, feeling that if those were
7 effective, there would be the potential for coverage down
8 the road. That was the limit of our discussion there.

9 DR. GORDON: One of the things that we are
10 planning to do, and we will have some kind of meeting
11 with Medicaid officials, and hopefully, at least, if not
12 before the July meeting, certainly before the October
13 meeting, we will be able to present some information.

14 If it seems appropriate, we may bring someone
15 in from Medicaid, as well, to address some of these
16 issues.

17 Wayne, did you want to say something?

18 DR. JONAS: I just wanted to make a comment on
19 demonstration projects, it hasn't arisen yet. There are
20 some difficulties with demonstration projects. They are
21 basically observational studies.

22 There is a lot of limitations to those,

1 selecting which kinds of systems would be evaluated, in
2 which areas would be difficult. Kind of ferreting out
3 what aspects of those systems was valuable or not
4 valuable would be very difficult.

5 Nonetheless, I think it is worthwhile having
6 some demonstration projects for particular populations
7 including underserved populations would be very useful,
8 and I think that we have heard also in past panels, a
9 number of federal organizations that would be interested
10 and willing to run demonstration projects, that have the
11 capacity to do that.

12 It is one thing to say you want to do it, and
13 it is another thing to be able to do it, and I think
14 those would probably require some support, specific
15 support to actually run those because they can be quite
16 expensive.

17 However, we heard over the last couple days
18 that there are a number of groups that could probably be
19 catalyzed to run their own or at least contribute
20 significantly and partnership some of the health
21 insurance plans, the employers, and this type of thing,
22 if there were some way to facilitate this process.

1 It wouldn't cost a whole lot in terms of the
2 government's input, but would probably need the
3 government to facilitate the process in some way.

4 DR. GORDON: Thank you. One of the things that
5 we are going to be exploring is with some of those
6 potential partners for administering or running or
7 implementing demonstration projects, and that is
8 something we will be doing.

9 Again, one thing we would like, we will be
10 asking some of you who have specific connections or
11 interests perhaps in helping us work with those partners.

12 It is time for us to go to lunch. It is an
13 early lunch, but we need to be back at 12:30. So, I want
14 to thank the chairs of the subcommittees and everyone,
15 and I want to thank particularly for this portion, the
16 whole staff, but especially Maureen Miller, who really
17 has done such a great job of bringing people in, in this
18 last day and a half.

19 [Applause.]

20 DR. GORDON: Maureen, thank you so much.

21 We will be coming back at 12:30, and with David
22 Eisenberg giving an overview of research issues.

1 So, we will adjourn for lunch.

2 [Lunch recess taken at 12:05 p.m.]

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A F T E R N O O N S E S S I O N

[12:35 p.m.]

Meeting Topic II**Complementary and Alternative Medicine:****Research Challenges**

DR. GORDON: One minute to introduce Dr. David Eisenberg, who is going to be presenting an overview of the issues related to research, as well as recommendations. If everyone could take a seat, please.

Panel Session I: Overview of CAM Research Challenges

DR. GORDON: This presentation is going to be a little bit different, in that, we are going to have slides. David is going to spend 25 minutes going over the area of research in CAM and making his recommendations, and then we will have 20 minutes to have a dialogue with him about the recommendations.

David.

Presenter: David Eisenberg, M.D.

DR. EISENBERG: Jim, thank you.

I am honored to be here, and delighted to see many dear friends, and to meet several other people whom I have looked forward to meeting for some time. So it is

1 a pleasure to be here with you.

2 I am particularly grateful to the staff and to
3 the Commission for giving me some time to present. I
4 thought it would be useful before you read the
5 recommendations, which are written somewhat succinctly.
6 There are 15 of them. I have given you a summary of them
7 in the form of an executive summary, and I have asked for
8 copies of these to be distributed, the extra ones that we
9 brought.

10 The presentation is really to give you the
11 background behind the specific recommendations. I have
12 also handed out to the Commissioners a bit of reference
13 material that describes every study I will be referring
14 to so you can go back to the original source.

15 If I could have the lights down just a bit.

16 [Slide presentation.]

17 DR. EISENBERG: I don't want to spend so much
18 time on terminology as I do some of the language that is
19 evolving to look at this very complex and provocative
20 field. I am then going to discuss for about five or 10
21 minutes, trends that I think set the stage for research
22 and research recommendations for the Commission.

1 I will then talk about some of the relevant
2 research to give you a sense of the state of the science
3 at this moment in time.

4 To give you a little preview, I want to give
5 you the sense of how the research is relatively new.
6 There has been precious little that has been satisfactory
7 to the more conservative stakeholders of biomedicine, and
8 in particular, we don't have as much in the way of basic
9 science or health service research as I think we need to
10 make proper recommendations.

11 I am going to give you some suggestions, and
12 then you have my written recommendations.

13 You are all familiar with the fact that before
14 the nineties, the pejorative language of unorthodox,
15 unconventional, unproven was predominant in the
16 literature, and that switched in the late eighties, early
17 nineties to complementary and then alternative as a
18 result of congressional direction and legislative -- I
19 hate to use the word "fiat," but prerogative. They
20 called the office the Office of Alternative Medicine, and
21 that has stayed with us since 1992.

22 Now, I will use CAM as a shorthand in my

1 presentation, but I want to point out that most academic
2 institutions these days are really wrestling with the
3 term of "integrative care" or "integrative medicine."

4 Integrative medicine, at least conceptually, as
5 discussed by a variety of deans and research directors,
6 combines the best of both conventional and evidence-based
7 CAM therapies, emphasizes patient participation,
8 exercise, diet, stress management, and maximizing health,
9 emphasizes the primacy of the patient-provider
10 relationship, and the importance of shared
11 decisionmaking, and emphasizes the contribution of the
12 therapeutic encounter itself and the science to be
13 gleaned from looking at encounter expectation,
14 conditioning, and those sorts of so-called nonspecific
15 effects.

16 Now, put in context, I want to share with the
17 Commissioners that they should be sensitive to the debate
18 going on at most of the universities as to whether we
19 should continue with the language of alternative or
20 complementary, or wrestle with this concept of
21 integration.

22 One could argue that it is filled with optimism

1 as unconventional or unorthodox or pejorative, but this
2 is the debate going.

3 I want to especially bring your attention to
4 the language used by Richard Smith in the British Medical
5 Journal that was devoted entirely to integrated or
6 integrative medicine in January of this year.

7 "Integrative Medicine," in the editorial; he
8 said, "focuses on health and healing rather than disease
9 and treatment. The patient is seen as a whole, complete
10 with dreams, disappointments, stories, loved one and
11 enemies, not just a biochemical puzzle to be solved. It
12 mightn't be too pretentious (although it might)" -- is
13 that British -- "to say that such a growth of integrated
14 medicine might restore the soul to medicine, the soul
15 being that part of us that is the most important, but the
16 least easy to delineate."

17 I think Ralph Snyderman said it best. He is
18 the Dean at Duke and CEO of Duke Medical Center. He
19 said, "We are really wrestling with the issue, not so
20 much of integrative medicine, but re-integrative
21 medicine, after we come back to the basic tenets that we
22 all went into health delivery for and which aspects of

1 CAM can be applied judiciously in an evidence-based
2 fashion."

3 So, I would like that discussion to have a
4 place in the Commission's report, because it is valuable
5 and I think it takes away some of the provocation us-them
6 dichotomization.

7 I will very quickly, for five minutes,
8 summarize what I call a brief journey in time, since
9 1992, to set the stage for the research agenda now. You
10 know all this, and I speaking to the choir here.

11 The Senate hearings in '92, The New England
12 Journal survey in '93, the Office of Alternative Medicine
13 in '93; '95, the 10 CAM centers, initial centers were
14 funded. By '98, the OAM was established as a National
15 Center.

16 '98 was a pivotal year. There was an important
17 editorial in The New England Journal of Medicine, Jerry
18 Kassirer and Marcia Angell speaking for many in the
19 biomedical community said it is time to stop giving
20 alternative medicine a free ride.

21 I think their point was that there was precious
22 little science, and that there was a danger of promoting

1 this field in the absence of science lest it be viewed
2 entirely as pure advocacy.

3 A month later, JAMA and the AMA journals
4 published a total of 80 articles, 18 randomized trials,
5 some positive, some negative, and their editorial, George
6 Lundberg and Phil Fontanarosa said, "There is no
7 alternative medicine." I read their editorial to mean
8 there is simply medicine, good medicine, and our
9 collective job was to distinguish useful from useless,
10 safe from unsafe.

11 By 1999, the NIH had funded additional centers.
12 They were beginning to fund Phase III clinical trials,
13 definitive trials, each of which will cost or has cost
14 millions of dollars.

15 I want to bring your attention to the fact that
16 it is only two years ago that the big pharmaceutical
17 corporations began to sell products in the urban
18 supplement domain.

19 Here is an example, a partial list of
20 representative household name labels - Bayer, One-A-Day,
21 American Home Products, Warner-Lambert, Johnson &
22 Johnson. You can't go into a drugstore in this country

1 without being a bit confused as to where the OTC drug
2 ends and the herb, vitamin, or supplement begins.

3 This past year, your commission was founded. I
4 think that was an important political act. The Macy
5 Foundation, arguably one of the most important
6 foundations interested in medical educational reform,
7 devoted one of its conferences to this topic this past
8 year, and I recommend their summary to you. It is
9 referenced in the handout.

10 There has been a new group that has formed, the
11 U.S. Consortium of Academic Health Centers for
12 Integrative Medicine. Now, this is composed of executive
13 deans and principal investigators currently from 11
14 universities, medical schools. I see Audi, who is here,
15 and Jim Gordon has been to one of these meetings, and
16 there may be others here who have attended.

17 This has been a discussion group that has met
18 twice to discuss what is the role of the academic health
19 center, and by "academic health center," I am speaking
20 about university, university hospital, university
21 affiliates, in terms of research, education, and
22 training, and responsible delivery of care.

1 I want to put this in your heads as the
2 overture to the symphony here, that these academic
3 affiliates, universities, hospitals, medical schools are
4 part of the engine that must guide the recommendations of
5 this commission, and I think this consortium has a very
6 important role to play.

7 It now consists of 11 medical schools. I think
8 the goal for the next year is to bring it to 25. At that
9 point, we will have 25 out of 125 medical schools
10 represented, and we could begin to discuss this at a very
11 different level vis-a-vis the larger medical community.

12 Just a few points. Since the beginning of this
13 year, most of you are aware that the NIH had a joint
14 conference with the Royal College of Physicians in London
15 to discuss issues and research challenges involved in
16 complementary and integrative medicine.

17 The British Medical Journal that I referred to
18 earlier devoted its entire issue to this topic. Many of
19 you may not be aware that the Federation of State Medical
20 Boards, which is in charge of licensure of all M.D.
21 licenses, has put together a committee to discuss
22 practice guidelines in the area of CAM.

1 Specifically, they and I have served as a
2 consultant to this group. They are looking not only at
3 physicians who deliver CAM services, but, in my view,
4 importantly, physicians who are co-managing patients who
5 are simultaneously being seen with licensed or unlicensed
6 CAM providers. In my view, that is the much bigger
7 challenge.

8 I also want to bring your attention to another
9 theme -- that safety will forever trump efficacy, and in
10 the last year we have become increasingly aware of that
11 which we all predicted, clinically significant adverse
12 drug-herb effects.

13 Now, there have been a series of articles
14 mainly in the Lancet. This is one from Adrian Fugh-
15 Berman, et al., looking at case reports. These are
16 individual patients who had clinically significant
17 adverse events that are attributed to -- I don't want to
18 say we are absolutely certain -- but attributed to
19 interactions between herbs like ginkgo or dong quai with
20 Coumadin, warfarin, a blood thinner, St. John's wort with
21 an antidepressant Yohimbe, which is an herbal aphrodisiac
22 with antihypertensives.

1 I think the granddaddy in this set -- and they
2 are all referenced in your handout -- is this study,
3 because this is not a case report, this is a prospective
4 clinical trial. Did Steve Strauss mention this to the
5 Commission, are you all familiar with this? Well, if
6 you are not, it is important.

7 This is a study that was done by Piscitelli and
8 his group who took college age volunteers, gave them
9 indinivir, which is part of the AIDS cocktail. It is a
10 viral inhibitor that is part of the very potent drug
11 therapy used to keep people with HIV alive and well, and
12 in this instance, they were watched, they were observed
13 while they reached a steady state of their indinivir
14 level, and then they were given over-the-counter St.
15 John's wort, and their indinivir level decreased
16 significantly and, in many instances, below the
17 therapeutic window that would safeguard somebody with
18 HIV, or to put it bluntly, people with an HIV infection
19 who were taking indinivir, who then exposed themselves to
20 St. John's wort may not be in danger of a recurrence of
21 the HIV virus because of the interaction of the herb with
22 the drug, making the drug more easily to metabolize or

1 metabolize more quickly I should say, and therefore, less
2 available.

3 Two other smoking guns. Patients with heart
4 transplants who had been clinically stable reported in
5 the Lancet, I believe, who then took St. John's wort,
6 they were on cyclosporin to help keep their hearts from
7 experiencing a rejection immunologically, once they
8 started St. John's wort, they rejected their hearts, and
9 the time course was close enough that the authors thought
10 this was a causal relationship.

11 Now, both of these patients lived because this
12 was picked up in time, but I don't think we need a long
13 list of smoking guns like this to convince us that
14 safety, drug-herb interaction, quality assurance of
15 herbal products to the American consumer must be a very
16 high priority.

17 As you all know, the business of herbs and
18 supplements is enormous. These are marketing data
19 estimating the worldwide sale of herbs and vitamins at
20 \$46 billion. We are the biggest single consumer at 11
21 billion, followed by about 10 billion for Europe, and
22 then Asia makes up most of the remainder.

1 Now, this is a study that just came out last
2 month, Robert Linden of Harvard School of Public Health,
3 and now the Kennedy School of Government. He and his
4 group did a series of surveys that looked at Americans'
5 views of herbs. I thought this was a very important
6 paper, and I brought a copy if you want me to make it
7 available to the Commission.

8 These were three random surveys, each with more
9 than 1,000 respondents, between '96 and '99, that found
10 that among average Americans, 48 percent had used at
11 least one dietary supplement regularly, 44 percent users
12 believe that their medical doctor knew little or not much
13 at all about these products.

14 These were the statistics that really surprised
15 me - 72 percent would continue to use their herb or
16 supplement even if a government study was negative. I
17 want you to think about that. I don't have the answer to
18 that. I don't know if it means they don't believe
19 research or they believe that these are safe and
20 effective, and they won't believe a study to tell them
21 otherwise, or if this is just aberrant sort of, the way
22 people who believe in any therapy will persist in spite

1 of the evidence.

2 On the other side, the majority were not aware
3 of DSHEA and the current environment with which
4 regulation occurs or does not occur for herbs, vitamins,
5 and supplements, but in the abstract -- and this is just
6 a hypothetical question -- they were asked, and 81
7 percent would require evidence of efficacy, safety, and
8 FDA approval prior to allowing for the sale of an herbal
9 supplement.

10 So, to suggest that there is not political will
11 to go back and talk about a higher degree of quality
12 assurance and safety of herbs is not founded by the data.
13 Congress may think that, but these surveys argue, I think
14 very potently, in the other direction.

15 Now, all of you are familiar with the JAMA
16 article, so maybe I will just skip over the summary
17 slides. You know that CAM use increased dramatically
18 from '90 to '97, to 82 million adults, 42 percent.
19 Number of visits increased to nearly 629 million we
20 estimate. That was more than 200 million more visits to
21 CAM providers than to primary care medical doctors.

22 Expenditures for CAM services increased by 45

1 percent to \$21 billion. These are all in the handout,
2 and you probably all know this article. Out-of-pocket
3 expenditures exceeded \$27 billion, disclosure still I
4 think unacceptably low with fewer than 40 percent of CAM
5 therapies discussed with physicians.

6 This was the predictor of some of these bad
7 apples I have talked about, that we estimated
8 conservatively that 15 million adults or 1 in 5
9 prescription drug takers was simultaneously taking herbs
10 or high-dose vitamin supplements, therefore setting the
11 stage for these clinically significant drug-herb
12 interactions.

13 Lest you think this is just a baby-boomer
14 phenomenon, among the elderly roughly a third used CAM
15 regularly to treat their most severe illness, and 1 in 5
16 see a CAM provider per year. This is from the Journal of
17 the American Geriatric Society.

18 Interestingly, the top two CAM therapies used
19 by adults over 65 are chiropractic and herbs, and
20 particularly for herbs, I am concerned about adverse
21 events of too weak kidneys and livers.

22 Again, just as backdrop, I think it is

1 important to say we lack definitive information about
2 minority patterns of use of CAM therapies. We need to
3 have oversampling of our Spanish-speaking population,
4 African-Americans, Asian-Americans.

5 The NIH recently has put together a committee
6 that I have worked with to give NHIS, National Health
7 Inventory Survey, to perform a survey of random
8 households in 2002, but these questions will only scratch
9 the surface, and I think you should vociferously interest
10 the Surgeon General, the NIH, and the Centers that are
11 appropriate, CDC and elsewhere, to look at detailed
12 patterns of use by the minority populations.

13 Their herbs and supplements, all the products
14 taken by mouth are probably different, their patterns of
15 access are different, their reimbursement profiles are
16 different. I think we need those data.

17 This is from an abstract, but it shows that
18 among quartiles of income, interestingly, even those in
19 the lowest quartile, this is from the same national
20 survey, those making under \$20,000, while income is a
21 barrier to CAM use, 43 percent of the lowest income
22 quartile has spent, approximately \$250 annually, which in

1 terms of expendable income, is still considerable.

2 I think I am speaking to the choir here, but it
3 would be a shame if, as CAM therapies are introduced by
4 third-party payers, those without insurance and those
5 with less expendable income are excluded.

6 Let me go more quickly to get to the research
7 side. You know that current use underrepresents
8 utilization, not if but when insurance increases, and now
9 we come to the research.

10 I have given in your handout examples of I
11 think the best examples we have to date, most of them
12 from the last five years, where the evidence suggests
13 that there is some efficacy of CAM therapies for
14 particular conditions, and I have culled the literature
15 and given you about 20 to look at that come from major
16 journals, and they are either well-designed and peer-
17 reviewed clinical trials, or they are consensus
18 conferences from the NIH or other federal agencies.

19 I think some of these you are familiar with,
20 but there is at least to some degree, some evidence that
21 chiropractic is useful for acute low back pain, mind-body
22 for pain and insomnia, acupuncture for nausea, dental

1 pain, moxibustion, just one study in the treatment of
2 foot first or breech presentation, psychosocial support
3 for cancer.

4 Two studies, meta-analyses suggesting
5 homeopathy as distinct from placebo, St. John's wort for
6 depression, ginkgo for Alzheimer's, Chinese herbs for
7 irritably bowel, saw palmetto for benign prostatic
8 hypertrophy. You are aware of these. These are sort of
9 the examples of good research suggesting positive
10 effectiveness. This last slide is just five more from
11 this year alone.

12 I would be remiss if I didn't mention that
13 there is, not an equally large, but I think almost as
14 large group of studies suggesting lack of evidence in
15 these same journals. Some of them get the same amount of
16 press as the positive ones, and this is my point - that
17 all this research, which is really five or six years old,
18 is now in the medicine literature.

19 The scientific community is engaged, positive
20 and negative studies are being reported, so this means
21 there is now traction, and I think this is a good sign
22 that the field is beginning to mature as a research field

1 that is worthy of our collective attention.

2 Many of you know that I leave from here this
3 afternoon to go to San Francisco for the First
4 International Conference on CAM Integrative Medicine
5 Research. That meeting cosponsored by Harvard and UCSF
6 is a research meeting only, only original research will
7 be presented.

8 We received 327 abstracts, we didn't know if we
9 would get 50. We accepted 223, 23 of them are being
10 presented orally, the other 200 by poster, and the
11 meeting is sold out with 400 registrants and standing
12 room only.

13 So, I think this means that the national and
14 international community want to come to a research
15 meeting to discuss basic science, clinical research,
16 research methodology, and policy-related science.

17 So, that is what is coming about over the next
18 few days. Again, I think this ushers in another chapter
19 within the discussion of CAM and its appropriate
20 insertion into the health care system.

21 So, this is really I think the new slide of my
22 presentation. In thinking about the evidence we have so

1 far, if you think about the way the trajectory of
2 conventional orthodox medical and biomedical research
3 versus complementary and integrative medicine, much of,
4 not all, but much of conventional orthodox medicine
5 proceeds from basic science to in vitro animal model, to
6 clinical trials, Phases I, II, and III, cost
7 effectiveness, health service research, policy,
8 reimbursement, politics issues come up later, after the
9 science is done, and then there is a change in the
10 delivery.

11 But if we reflect honestly about the field of
12 CAM, it was a series of epidemiologic surveys, mine
13 included, that got the attention of a whole group of
14 stakeholders. It was epidemiology and popular demand
15 that launched the OAM, that fed NCCAM, that informs much
16 of the Commission's work and mission.

17 Political support is already engaged, I need
18 not tell you that, you think about it all the time as
19 commissioners, but there have been few clinical trials,
20 most of them Phase II, and now a few in Phase III,
21 osteoarthritis of the knee, chondroitin sulfate, St.
22 John's wart for depression. You know these.

1 There are very few, I don't know of any Phase I
2 trial of a CAM entity, a safety trial, as there is in
3 drug studies. There is precious little -- these are in
4 italics and yellow, but you can't see -- precious little
5 in the way of cost effectiveness and health service
6 research, and that is where I want to spend the last five
7 or six minutes of my time. Can I still go for another
8 five or six, Jim?

9 DR. GORDON: Yes.

10 DR. EISENBERG: And even less in the basic
11 sciences. One of the themes that I have put front and
12 center in the list of written recommendations is that
13 research in this area has to have basic science, clinical
14 research, and health service cost effectiveness research,
15 and all have to be fully resourced.

16 The medical community will not accept the field
17 changing its behavior in the absence of basic science,
18 mechanistic, plausible mechanistic and rational
19 explanatory models.

20 The health care delivery side, policymakers and
21 third-party payers will not, from a fiduciary standpoint,
22 pay for this in the absence of health care, health

1 service research that shows clinical benefits at reduced
2 cost or cost neutral.

3 White and R. Ernst reviewed all the literature
4 to look for economic analyses of this field, and he
5 basically summarized it as follows - there is a paucity
6 of rigorous studies that could provide conclusive
7 evidence of differences in cost and outcomes between
8 complementary therapies and orthodox medicine.

9 Following up on some of the themes I heard
10 George DeVries pick up on this morning, in spite of the
11 fact that there is precious little in the way of health
12 services research, these CAM programs are being offered
13 by managed care organizations throughout the United
14 States.

15 This is an ad that you can't quite see from the
16 New York Times just a few months ago. It is an HMO, it
17 doesn't matter what the name is, and in addition to
18 orthopedics, neurosurgery, dermatology, and all the other
19 conventional allopathic orthodox specialties, I have
20 highlighted where it says this HMO also provides
21 acupuncture, massage, chiropractic, naturopathy.

22 To the average American, this is now insinuated

1 within our health delivery system. They don't understand
2 the provocative nature of this debate of how much
3 evidence is there and should it be paid for and who
4 licenses, et cetera.

5 So, most of you know, and I am sure George has
6 briefed you, that most of the CAM delivery services are
7 really reduced fee-for-service at this point in time.
8 Networks of providers are described by HMOs or insurance
9 carriers. These are efficient, convenient, carved-out
10 services, but they are not yet, in my view, fully
11 integrated.

12 We can't track the clinical and cost offsets,
13 and that is really I think part of the Holy Grail.

14 So, I was asked for examples of models that are
15 ongoing to look at how you track this, and I think the
16 critical question is in any condition, if you randomize
17 patients -- and I am a believer here, in this instance,
18 of randomized trials being useful -- if you randomize a
19 population to integrative or CAM therapy options versus
20 usual care, what does it do to your clinical outcome
21 costs and satisfaction?

22 I will showcase two examples. We could talk

1 more about them in the discussion if you would like.

2 This is a study funded by NCCAM, one of the few health
3 service research projects I am aware of funded by the
4 NIH. It was originally sent to the Agency for Health
5 Care Policy and Research. They did not have the funds to
6 do it, NCCAM picked it up.

7 The point of this slide is that this is a trial
8 with people in an HMO, Harvard Pilgrim, Harvard Vanguard,
9 with acute back pain, who show up at their doctor's
10 office, and they are invited to participate in a
11 randomized trial.

12 One in three get usual care, and two in three
13 get a choice of expanded benefits. This is fairly
14 heretical design in the eyes of NIH. We are really
15 looking a monotherapy and fairly causal relationships.

16 The only thing this study can tell us is if the
17 group that gets expanded benefits, their choice of chiro,
18 acupuncture, massage, or usual care fares better in terms
19 of clinical outcome, cost, satisfaction, that sort of
20 thing.

21 The hypothesis in the study is that people have
22 access to these benefits and they are paid for as part of

1 this NIH study, will have greater symptom relief, greater
2 improvement and function, greater satisfaction, and
3 decreased utilization of conventional services, visits to
4 the orthopedist, follow-up x-rays, PT, et cetera.

5 The medical community I think can argue on very
6 solid grounds that there is not much evidence to suggest
7 that this will happen. They say balderdash, these people
8 are not going to get better faster, 85 percent are going
9 to get better in six weeks no matter what.

10 The CAM community says you give them to us
11 quickly, we turn them around more quickly, we reduce the
12 rate of occurrence, we change the degree of dysfunction
13 over time, but particularly in the acute setting, let us
14 prove our worth.

15 So, this is when I think a controlled trial is
16 useful. That is what this study is about. I am showing
17 it to you as a model, but embedded in this model are a
18 few things that are key to your discussion.

19 We drew a circle around our clinical site, our
20 first pilot site, West Roxbury, a suburb of Boston, a
21 working class suburb. There were 347 licensed
22 chiropractors, acupuncturists, massage therapists,

1 basically in walking distance from that medical site.

2 Which ones do you bring into this research
3 project? Which ones do you, as an HMO medical director,
4 bring into your HMO? Which ones do you, as a physician,
5 refer your patient or your brother-in-law to?

6 This goes way beyond licensure. This is levels
7 of credentialing, and by whose criteria? Now, we have
8 worked with the chiropractors, acupuncturists, and
9 massage therapists for four or five years. They co-
10 funded the pilot of this. They built the scope of
11 practice that we embedded in our criteria to pick the
12 researchers.

13 We could spend a lot of time on this, but how
14 do you decide who is the best practitioner among the
15 licensed practitioners? Licensure and name is not
16 sufficient. What about malpractice history? What about
17 a written application, who writes it? What are the
18 criteria for scoring it? Can it be reproducible, so
19 somebody doesn't say you are just picking your friends?
20 What about site visits and medical records? What about
21 billing practices?

22 What if this person does something that is out

1 of keeping with 9 out of 10 of his colleagues in the
2 community?

3 These are the credentialing issues that I have
4 also put as front and center as recommendations from the
5 Commission. Above and beyond licensure, we need to have
6 credentialing.

7 The last model I want to give you as an example
8 of health service research was recently published, just
9 two weeks ago, in the Archives of Internal Medicine.
10 This is a more fastidious randomization of chronic low
11 back pain patients from Group Health in Seattle
12 randomized to these three arms.

13 This article published by Dan Gherkin [ph] and
14 others really compares two CAM interventions with sort of
15 standard educational intervention. You can't see the
16 slide very well, but the outcomes are what the health
17 service research community looks for, disability scores,
18 and in this instance, among the three groups, massage,
19 acupuncture, and education, massage fared better in terms
20 of disability. In terms of weeks, in terms of
21 medication, number of pills, and cost of drug, massage
22 fared better.

1 In terms of dollars spent, there was a trend to
2 suggest that massage was the most cost effective.

3 Now, these conclusions of just one study give
4 you an example of how you can look at CAM therapies, look
5 at clinical outcome, and cost, and the conclusions were
6 that massage appeared to be safe, acupuncture is safe but
7 had little effect, self-care promising, but I think the
8 new news here was that in this one study, provocative as
9 it may be, that massage may, in fact, be a cost effective
10 modality, and this warrants further research.

11 The only other theme I want to mention -- and I
12 know my time is out, so I will just flag it for you -- we
13 are seeing now integrative care teams crop up in major
14 hospitals and medical groups throughout the country, some
15 private, some public, some in major academic health
16 centers. These are examples of major, high-visibility
17 hospitals that have rolled out integrative care clinics.

18 I repeat my challenge. We must test whether
19 these integrative care units, when given patients with a
20 chronic or life-threatening illness, provide better
21 clinical outcomes and at what cost.

22 These are testable hypotheses. These

1 integrative care units at the major universities should
2 be encouraged to develop randomized trials to see if they
3 do better with the patients with cancer or low back pain
4 or intractable headache.

5 I don't have a chance to go into the model that
6 we are working on in Boston, but you get the gist.

7 So, my final slide is the stakeholders and some
8 of my recommendations that are written out for you. I
9 encourage you to think about the universities, medical
10 schools, hospitals, and these integrative care centers
11 affiliated with them as part of the driving force.

12 To date, the managed care and the insurance
13 industry have allowed us to look at some of their
14 outcomes, but they are not investing in research in this
15 area. Similarly, the private sector, although making a
16 lot of money, pharmaceutical companies in particular,
17 they have not invested in research in this area. They
18 need to be engaged. Either they should pay for the
19 research, or perhaps they could be incentivized to match
20 federal dollars to invest in basic science, clinical
21 research, and health service research.

22 Similarly, don't forget about the Fortune 1000

1 employers and employer groups whose employees want these
2 therapies, and I think would pay good money to have
3 randomized trials to see if this is cost effective for
4 their employees - will it get the back to work, will they
5 be more efficient and effective employees, will they be
6 more satisfied.

7 Philanthropy has jump-started almost all of
8 these university programs, Harvard included. The
9 consumers are the ones you know the most about. Let's
10 not forget the NIH to date has been the largest
11 repository of funding, but I encourage you to explore
12 ways in which CDC and the Agency for Healthcare Research
13 and Quality can be engaged.

14 This is the group that has the most expertise,
15 by the way, in best practices and cost effectiveness
16 research. For some reason, they have not been a major
17 player, and I think they need to be.

18 You are aware of Congress. I encourage you
19 also to think about the Federation of State Medical
20 Boards, and of course, the FDA.

21 I will close with a quote. Well, I don't have
22 a chance to summarize this, but I think you get the gist.

1 Let me make one point.

2 Clinical research in the absence of basic
3 science is insufficient. Health service research doesn't
4 exist. Education, you are going to talk about, but let
5 me also plant the seed that faculty across our
6 universities arguably know perhaps the least about this,
7 and while you are talking about training the trainees,
8 think about faculty development.

9 When you think about delivery systems, I
10 encourage you to fund research collaboratively between
11 the private and the public sector, that looks not only at
12 the efficacy of individual CAM providers, but do these
13 CAM networks, as George has spoken about, deliver cost
14 value, and do these integrative teams deliver improved
15 clinical outcomes and at what cost, yes or no.

16 Credentialing is a bugaboo. Quality assurance
17 and safety, I have highlighted. From my view, you cannot
18 create judicious policy informed by research in the
19 absence of getting these things right.

20 So, I will close there with a quote. "Doing
21 everything for everyone is neither tenable nor desirable.
22 What is done should ideally be inspired by compassion and

1 guided by science, and not merely reflect what the market
2 will bear."

3 Thank you very much. I am open to your
4 questions.

5 [Applause.]

6 DR. GORDON: Thank you, David.

7 Could we have the lights on and questions from
8 the Commissioners.

9 DR. EISENBERG: I have synthesized these, by
10 the way, in a list of specific recommendations in your
11 handout.

12 **Panel Discussion**

13 DR. GORDON: David, do you have a copy of that
14 most recent study, as well?

15 DR. EISENBERG: Which one?

16 DR. GORDON: The one on massage.

17 DR. EISENBERG: Yes.

18 DR. GORDON: One question I want to ask while
19 people are collecting their thoughts is when you think of
20 health services research, which is clearly one of the
21 areas that is important to you, what are your suggestions
22 to us about recommendations that we should be making in

1 terms of funding health services research?

2 Do you want to come down here with us and sit
3 at the table? That way, we won't have to keep looking
4 up.

5 DR. EISENBERG: Sure.

6 General thoughts about health service?

7 DR. GORDON: Well, thoughts about it, where,
8 any particular priorities that you would seek?

9 DR. EISENBERG: As I mentioned, I think, first,
10 we need to engage the experts in health service research.
11 The Agency for Healthcare Research and Quality has been
12 doing health service research for years.

13 Each of the major universities, that is a
14 player in this Consortium of Academic Health Centers
15 looking at integrative care, has armies of health service
16 researchers, but most of them know that you start with
17 the premise that you don't know the answer, that you have
18 to keep the variables consistent, so if you have uneven
19 credentialing, you don't have a consistent intervention.

20 If you have herbs and supplements that can't be
21 extracted in a uniform way, you don't have a testable
22 intervention at all. Health service research looks at

1 clinical and financial outcomes, so if you don't have a
2 consistent way of tracking the financial outcomes, not
3 just the amount of cost to the insurer, but the number of
4 visits to the health care provider, the number of hours
5 spent on the phone, all the lab tests, et cetera, then,
6 you know, we don't have health care research that will
7 dictate policy.

8 So, I think the short answer is play to your
9 strength, go to those agencies that know how to do this
10 well, and in fairness to NIH, they were not established
11 to do health services research, and yet my view of this
12 commission is it is charged to make recommendations that
13 fall squarely in the domain of areas informed by health
14 service research. So, I think we have a big gap.

15 DR. GORDON: Have you formulated or has anyone
16 formulated some of the conditions that you are describing
17 for making sure that the providers are equivalent or for
18 measuring cost?

19 DR. EISENBERG: Well, you know, we have
20 submitted manuscripts that are currently in peer review
21 to look at standard approaches to credentialing of
22 practitioners.

1 We have -- and you will hear from Bridget Duffy
2 at Medtronic -- suggested across interested university
3 programs that we create a unified data tracking system.
4 There is no point in these integrated units at Columbia
5 or Harvard or Maryland or UCSF or Stanford looking at
6 clinical outcomes, DRGs, or financial utilization units
7 in ways that can't be compared and contrasted, or to put
8 it differently, if there was a unified data tracking
9 system for clinical outcomes and costs, then, all the
10 parties that were looking at CAM therapies for individual
11 conditions could be contrasted and compared, or one could
12 imagine, in a somewhat grandiose way, the beginning of a
13 national data warehouse.

14 Now, the insurance companies desperately need
15 this to make fiduciary decisions on where to set the
16 premium. I am sure George DeVries can speak about this
17 from the business side, but that is actually the missing
18 piece of the puzzle, how do all of these individual
19 practitioners, networks of practitioners, and integrative
20 units compile data that is comparable across
21 institutions.

22 I don't think you can do it without setting

1 standards for credentialing the intervention itself and
2 the data captured, financial and clinical.

3 DR. GORDON: How far along are you in the
4 process of formulating those guidelines?

5 DR. EISENBERG: I think we should be modest. I
6 am as far as these studies can take me, and I am
7 comparing and contrasting them with studies being
8 performed by other universities that are also doing
9 clinical health service research, and we are comparing
10 notes to see if we can create a unified data tracking
11 system.

12 But, you know, Woody at Maryland and New York,
13 and we in Boston, and some of the other integrative care
14 units are meeting to say why don't we, for goodness sake,
15 use the same electronic medical record, why do we capture
16 the same information, because again, without that, you
17 know, there is strength in numbers, and when you capture
18 information on 2,000 back pain patients as opposed to 20
19 in a small study, you have a different level of
20 authority.

21 DR. GORDON: Great. So, we can sort of tap
22 into that through you and through Woody and through some

1 of the other people.

2 DR. EISENBERG: Certainly, to be aware of where
3 they are, and Bridget Duffy and the Consortium of
4 Universities that Medtronic has funded, we will be
5 meeting once or twice a year to discuss that as a high
6 priority issue.

7 DR. GORDON: Thank you.

8 DR. EISENBERG: Again, for the greater purpose
9 of delivering evidence as to whether these things are
10 useful or not, cost beneficial or cost additive.

11 DR. GORDON: Thank you.

12 Other questions, Commissioners? Wayne.

13 DR. JONAS: Thank you, David. Good to see you.
14 Thanks for that very nice overview and highlighting the
15 significant challenges in research in these areas.

16 I want to question, and I would like your
17 opinion about this, the current strategy that you put up
18 there about how this is being approached, because I know
19 this is the strategy of NCCAM explicitly, like Steve
20 Strauss and others, and many folks are going in this
21 direction.

22 You put up on one side kind of a standard way

1 in which in conventional medicine, biomedical research is
2 normally done through the basic science research to pilot
3 trials, to clinical trials, et cetera.

4 I think there is a reason for that, there are
5 some very good reasons for that. I question whether it
6 is wise not to use that sequence, because if we jump --
7 and you have just illustrated it yourself here -- if we
8 jump directly into demonstration projects, health
9 research, et cetera, in which we don't have the
10 underlying background of, well, what is the standardized
11 herb and how do you produce it, and what is the mechanism
12 of vitamin C I.V. before you do a clinical trial of it,
13 or what practices are you going to uniformize or
14 standardize for us to be able to explore what you do in a
15 pilot trial, what is the wisdom of jumping around,
16 though, or is this perhaps foolhardy especially since
17 many of those studies are quite expensive, are we not in
18 some sense shooting in the dark here and should we maybe
19 rethink this strategy in some way despite the public's
20 continuing venture into this area.

21 DR. EISENBERG: Wayne, I completely agree and I
22 put up this slide to really humbly reflect on how the

1 trajectory has gotten rather cockeyed, that in the
2 absence of a robust basic science program, certainly the
3 scientists in the medical community will continue to be
4 irritated. In the absence of health service research,
5 the people in the business sector will not have the
6 information they need to set appropriate policy. So, I
7 am agreeing with you.

8 I would say it a little differently, though. I
9 think my suggestion in a positive, in a way to give a
10 friendly amendment to what has happened, I think it has
11 happened because it has happened. I mean, you know, if
12 the first study was a basic science study of the
13 mechanism of homeopathy, we would have a very different
14 trajectory, but that didn't happen.

15 I think if we can all commit ourselves as a
16 larger community interested in this area, to say we need
17 the resources to develop all three - basic science,
18 clinical research, and health service research, and I
19 didn't show the slide, the penultimate slide, but I think
20 your university partners are still arguably the trusted,
21 honest brokers if you will, that industry can relate to,
22 that insurance companies can relate to, that

1 pharmaceutical companies can relate to, and I think you
2 should utilize them and help them create a critical mass
3 of university programs that can do this in an honest and
4 often skeptical way.

5 My own philosophy at Harvard has been to engage
6 some of the more senior skeptical scientists before I
7 even begin a pilot study, to ask them what would be the
8 most rigorous way of addressing this question, what would
9 be the best methodology to use, and to invite them to be
10 either consultants or co-authors.

11 So, in a way, Wayne, I am agreeing with
12 everything you are saying. I think it wasn't broken, we
13 don't need to fix it, that research trajectory is very
14 sound, and somehow CAM and policy recommendations are
15 occurring on somewhat shaky ground in the absence of a
16 lot of the science that needs to be built.

17 DR. GORDON: We are going to have to move,
18 though, Wayne, because we are very pressed for time this
19 afternoon.

20 Effie, Tieraona, and Joe. Sorry.

21 DR. CHOW: David, thank you very much for the
22 nice encapsulated background. I have a couple of

1 questions.

2 Can we get a copy of what you presented?

3 DR. EISENBERG: I will try to generate as many
4 of the slides as are now on PowerPoint.

5 DR. CHOW: The other is that in your definition
6 of integrative medicine, what seems to be a new or old
7 integrated is the bioenergy concept, and do you want to
8 make some comment about that? Also, I would like to know
9 how are you going to go about the minority study, you
10 know, that you are undertaking.

11 DR. EISENBERG: Let me try to be brief. The
12 integrative medicine slide is not mine, but rather a
13 reflection of discussions ongoing of the Consortium, and
14 it was meant to make you aware of the rhetorical debate
15 and an attempt on the part of many people within the
16 academic sector to depolarize this, to make it less
17 inflammatory, to talk about improving conventional care
18 based on the best evidence available.

19 To my knowledge, there is no part of the
20 definition that speaks directly to energy, so I just say
21 that to you.

22 You then asked me about minority issues. I

1 have been a broken record at NIH, Wayne knows this,
2 people in CDC know this, I have been pounding the table
3 saying it is immoral in my view not to replicate the
4 national survey by including at least our large minority
5 populations, and I stand by that. I think it is
6 unacceptable.

7 So, this is, I think, a compromise to get it on
8 this National Health Inventory Survey to 43,000 families,
9 but I don't think it will address the issues we need,
10 which are detailed patterns of use by our minority
11 citizens.

12 DR. GORDON: Tieraona, and then Joe.

13 DR. LOW DOG: Thank you for the presentation.

14 The issue of botanicals is a big one right now
15 with a lot of the sort of negative media that has been
16 coming out, and the statistic was kind of interesting
17 about 81 percent of people would like it to be safe,
18 efficacious, and FDA-approved before it was released,
19 which doesn't happen at a current DSHEA.

20 I guess my question would be, since many of us
21 are tackling with this issue, what would your
22 recommendation be, one, as far as how to address this

1 since DSHEA has already been passed, and, two, do you
2 think there would any role for basically funding the top
3 20 to 25 herbs that are sold in the United States to be
4 funded and paid for to have safety data? Not necessarily
5 efficacy, but safety data done that would provide
6 information on genotoxicity, teratogenicity, safety dose
7 limits, et cetera, if we don't -- yes, and drug
8 interactions involving p450 systems and that -- if it is
9 going to take time to do DSHEA, do you think this might
10 be a temporary measure that might be useful?

11 DR. EISENBERG: I think when I speak before
12 groups of physicians -- and I used to practice primary
13 care for a long time -- I think physicians are in an
14 impossible situation right now, and I think they are
15 speaking to this.

16 We don't know whether what is said to be on the
17 label is in the bottle. We can't be assured of the
18 quality of the product even if they say it is tested to
19 this percent. There is no regulation to ensure it. We
20 don't know its interactions with prescription drugs or
21 with one or another herbs or supplements.

22 I am saying the same thing. I am not

1 comfortable with the current atmosphere vis-a-vis herbs,
2 vitamins, and supplements. At a minimum, I would agree
3 with those 80 percent who said safety has to be a
4 prerequisite to sale of these items.

5 Now, you will see in my recommendations, short
6 of demanding safety and changing DSHEA right now, at a
7 minimum, we could push for a postmarket surveillance
8 program and share the burden of that with the
9 manufacturers and distributors of these products. We do
10 that with pharmaceuticals.

11 Furthermore, this is another perfect area where
12 the pharmaceutical industry should be constructively
13 engaged. Don't you think the manufacturers of
14 cyclosporin or serotonin re-uptake inhibitors want to
15 know precisely which herb interact with their drugs and
16 on what receptor sites?

17 It is a two-edged sword. On the one hand, they
18 protect themselves from future liability, and on the
19 other hand, there is drug development and drug discovery
20 to be made, either metabolism of drug or receptor sites.
21 I think you get my gist.

22 This is where we should take what I think is a

1 disastrous situation and use it to our collective benefit
2 to engage those stakeholders and say only up to the bar,
3 create a consortium for research to look at adverse
4 events. You say they don't happen. Let's constructively
5 and prospectively monitor that with your products. We do
6 that with the pharmaceutical industry.

7 Personally, I would like to see efficacy also
8 as a prerequisite, but I am a clinician here, I am not
9 speaking as a regulator, so you see where I stand.

10 DR. FINS: Thank you for your comments. Your
11 fourth recommendation addressed potential ethical issues
12 associated with CAM therapies, co-management, and
13 presumably with research.

14 Based on your experience with IRBs and
15 designing these studies, could you say more about that?

16 DR. EISENBERG: When you say "ethical," I
17 think I point to malpractice.

18 DR. FINS: You said issues of malpractice,
19 liability, and ethical practice associated with CAM
20 therapies, but if you could expand that to talk also
21 about the ethical dimensions of the research endeavor
22 that you propose.

1 DR. EISENBERG: Well, I think all of the
2 research that I am aware of and support is cleared by
3 IRBs and looked at very strenuously for ethical issues,
4 conflicts for patients, but there are also legal
5 constraints.

6 I think you have met Michael Cohn [ph], who
7 works on our staff, and is really trying again in the
8 peer-reviewed literature to lay out some of the
9 malpractice issues, and Karen Adams from the University
10 of Washington and others have written on the ethical
11 issues. These are all in peer review now.

12 I think suffice it to say apropos Wayne's
13 point, there is not a new approach here. It is the same,
14 if not a higher standard of excellence that we need to
15 aim for. Something that is unethical, immoral, or is not
16 sanctioned by the law cannot proceed as a university-
17 affiliated project. End of story, finished, complete.

18 That is why I think again these university-
19 affiliated research centers and institutes are your
20 honest brokers. The rules have been put in place, let's
21 play by the rules. I think none of the studies that I
22 have been a participant in, none has been rejected to the

1 point where we can't go back. I think some have been
2 very difficult to convince the IRB on their merits, but
3 none has been rejected out of hand.

4 DR. FINS: On that specific issue, do you think
5 IRBs need education to supplement what they already know
6 to address the challenge?

7 DR. EISENBERG: One of the interesting things
8 to consider is whether IRBs should begin to have
9 participants who are knowledgeable or members of the CAM
10 community to help advise them on what the standard of
11 care is.

12 If you talk about some therapies and some IRBs
13 where nobody has heard of the therapy or realizes that
14 these are licensed practitioners up the street, there is
15 really a knowledge and information gap to inform the
16 larger group.

17 So, again, I think use the IRBs, expand them,
18 refine them, so we can have valuable discussions about
19 these things.

20 DR. GORDON: We have two very eager, one quick
21 follow up from Wayne, and one quick one from Dean, but we
22 are already about 10 minutes overtime.

1 DR. JONAS: This is an easy question for you.
2 What do you think about the current strategy to reduce
3 the number of centers and center funding that is
4 currently going on at the NIH?

5 DR. GORDON: What, Wayne? I couldn't hear you
6 back here.

7 DR. JONAS: To reduce the current, at least
8 projected strategy to reduce the number of centers, CAM-
9 supported centers at the NIH.

10 DR. EISENBERG: I think, Wayne, you know from
11 my own personal reflections that I disagree with that.
12 Jim, you and I and Dean were at a meeting of foundations
13 and principal investigators of universities not three
14 weeks ago, where we talked about the wisdom, if you will,
15 of creating greater resources for university centers, not
16 just NIH funded, but university centers that could
17 proceed with a research base and educational base and a
18 clinical delivery infrastructure, and that these
19 universities need to be supported.

20 Now, part of that will be the NIH research
21 base, so I am a big champion of a critical mass of
22 academic affiliated centers that can do this work, but

1 again, you can see that is totally self-serving because I
2 live in an academic institution.

3 I still think they are your honest brokers. I
4 think they are the only group that can engage all the
5 stakeholders and the consumers and win the respect of
6 everyone and say we did the studies that needed to be
7 done to figure out what worked and what didn't, what is
8 safe and what was not, and how to create policy that is
9 ethical and within the law, so I hope that answers your
10 question.

11 DR. GORDON: Dean.

12 DR. ORNISH: Just quickly. I again want to
13 thank you for your wonderful presentation and also your
14 leadership in the field, and particularly your commitment
15 to getting good science.

16 A number of people who have testified before us
17 have said things like, you know, there needs to be a
18 different kind of experimental design for some
19 integrative medicine, CAM therapies, that if you are
20 comparing St. John's wort with Prozac, it lends itself to
21 a double-blind design, but if you are looking at other
22 CAM modalities, they don't really lend themselves, and

1 you have also given an example of a different kind of a
2 design in the back pain study.

3 Can you briefly comment on how you feel about
4 that or do you think that everything should be held to
5 the same type of design?

6 DR. EISENBERG: I think I am on the side that
7 says we don't need a new paradigm, that the tools we have
8 are excellent for most, not all, of the questions we want
9 to ask, certainly many of the basic questions we have
10 sufficient tools.

11 I think what has happened is there has until
12 recently been no engagement of the biomedical community,
13 particularly the basic scientists, to see the beauty and
14 the excitement of the puzzle.

15 I think some of these studies -- you know, you
16 are shaking your head, Wayne is shaking his head -- all
17 of us that do research for a living in this area know
18 that it is very complicated to design a placebo-
19 controlled study of acupuncture, but it becomes
20 intellectually a beautiful, artistic project, a
21 challenge, and when you get the best researchers at the
22 university to say, well, let's look at this critically,

1 they come up with ways of refining study design.

2 I think that may be some of their contributions
3 to the field down the line, but it is not a new science,
4 it is not a new paradigm, it's an extension of existing
5 approaches. You know, David Sackett said it best, "Can a
6 therapy withstand attempts to prove its worthlessness?"

7 It takes great creativity to design studies
8 that do that in a fair and honorable way, and I think we
9 just haven't engaged the medicine community enough to do
10 it, and when we do, I think we will get a lot of answers
11 to this.

12 I also want to return the compliment to you,
13 Dean, and I didn't mention this, but it is important.
14 You will see in the written testimony, when I talk about
15 university-affiliated programs, I think that is because
16 they get the most traction as universities do, and they
17 also have the greatest resources and infrastructure, but
18 many of them must be informed by demonstration projects
19 that have not grown up in the university, that are being
20 done by the private sector and by entrepreneurs that can
21 inform the universities.

22 So, I don't want to make this a monolithic

1 university or nothing, take it all, but I think the
2 university has become the vehicle, the factory to build
3 these new projects.

4 DR. GORDON: Thank you very much, David. Thank
5 you for all your work. Good luck with the conference in
6 California, and we may well be back in touch with you to
7 find out how it went and any further thoughts you may
8 have.

9 DR. EISENBERG: Thank you all very much for
10 having me.

11 [Applause.]

12 **Panel Session II: Foundation Support for CAM Research**

13 MS. CHANG: We are going to go ahead and move
14 on to the next session for this agenda. Dr. Bridget
15 Duffy, Dr. Doriane Miller, Susan Braun, and I think we
16 have a substitution for Ron Chez, Susan Samueli speaking
17 for Ron Chez.

18 DR. GORDON: Welcome. We will begin with
19 Bridget Duffy.

20 **Presenter: M. Bridget Duffy, M.D.**

21 DR. DUFFY: Thank you for inviting me. I
22 enjoyed meeting some of you in Minnesota. Was it a month

1 ago when you were there for the Town Forum? It was great
2 to get here today, because it is 99 degrees in Minnesota
3 this morning.

4 Today, in Minnesota, the nurses vote whether to
5 strike, and I bring this up because it is very pertinent
6 to what I want to talk about today with you. Most
7 believe that they will strike, and if they strike, they
8 will walk on May 31st.

9 I was asked a few months ago to come and speak
10 to the nurses at the largest hospital in Minnesota, on
11 May 31st coincidentally, and they called me yesterday to
12 confirm my title and to ask me what my objectives would
13 be.

14 In lieu of this potential strike and walkout on
15 the day that I am speaking to them, I changed my title.
16 The original title was, "The Use of Complementary and
17 Alternative Therapies in the Nursing Practice," and I
18 changed my title to read, "Restoring Healing to Health
19 Care: The Crucial Role of Nurses".

20 Now, I think what is at the core of the writ,
21 of the issue that they have in health care today, and the
22 reason they may strike, is not what the papers would have

1 you believe, just money, but it is about the loss of
2 their profession as a healing profession. It is the loss
3 of a relationship with themselves, with their patients,
4 with the ability to provide the healing services and care
5 that they know impacts their patients.

6 So, their issues form the basis of my comments
7 and my recommendations to you today, and I believe that
8 the interest and the use of complementary alternative
9 therapies is a symptom of a much deeper issue in
10 medicine, and through my work, through the Medtronic
11 Foundation, and in my collaboration with other
12 foundations and philanthropists, we are seeking to change
13 this.

14 So, what I would like to do in the few minutes
15 that I have with you is talk about four things. I would
16 like to tell you what we are seeking to do to change
17 medicine, how we will do it, what are the obstacles we
18 have encountered, and what are our recommendations to
19 you.

20 So, what are we seeking to do? We are seeking
21 -- and as you asked me in the first question, which is
22 included in your handout -- is our foundation funding

1 complementary alternative medicine research, and my
2 answer was that we are not supporting the study of
3 specific CAM modalities, rather, we are seeking to
4 support research efforts that are identifying the best
5 clinical care models to improve the lives of people with
6 chronic disease.

7 Now, Medtronic, for those of you who don't know
8 who the company is, is the world's largest device
9 company, makes implants for the brain and for the heart.
10 There are 22,000 employees worldwide, and we make devices
11 for Parkinson's, for every aspect of heart disease.

12 So, the people that we serve are quite large.
13 As you know, heart disease is the number one killer in
14 the United States with neurologic conditions expected to
15 surpass that in 10 years. So, our goal is to transform
16 the way we care for people with chronic disease.

17 Medtronic believes and due to an enlightened
18 founder and CEO that it is not enough to just crack a
19 chest, put in a valve, and send a person home in four
20 days, or to put a burr whole in the brain and put an
21 implant in to stop the tremor and send him home in two
22 days.

1 We believe that there is much more to healing
2 and that we, as a device company, needs to play a role in
3 shaping what that model looks like. So, how will we do
4 it? Point No. 2.

5 We could wait for government and academia to
6 redesign or overhaul the medicine, but we decided we
7 would find those who we felt could just go build it. So,
8 through philanthropy, we are seeking people that have
9 vision and leadership in place to build these models of
10 care, and that is because I am impatient and so is the
11 founder of my company and the current CEO.

12 In fact, Earl Bakken, who invented the
13 pacemaker 50 years ago, said to me, "Bridget, 25 years
14 ago I wrote a paper called Vision 2010: The Hospital and
15 Health Care of the Future," and it was about the
16 incorporation of alternative therapies and creating a
17 healing environment, and he said, "It took me 20 years to
18 get them to even start listening to me."

19 I said to him, "Earl, I don't have 20 years, we
20 are going to do this much more quickly." So, how we are
21 seeking to do that is that Medtronic's main customers are
22 heart patients and brain patients, so our customers are

1 neurosurgeons and heart surgeons that implant these
2 devices.

3 So, I decided to target these folks. We know
4 that nurses and family docs and internists usually get
5 this, they usually know what it takes to heal. We
6 decided to go to this group of individuals to have them
7 help us build the models.

8 Hierarchically and financially within the
9 institutions, these people run the hospital. So, we
10 realized that if we could get and identify some champions
11 in these fields, that we could ask them to build these
12 models, and we would have a ripple effect across the
13 country.

14 So, we have identified some of the top academic
15 centers and clinical centers across the country, and we
16 are supporting several of them, and the number will be
17 growing, as David Eisenberg alluded to.

18 Now, how do we identify them? We had
19 institutional and programmatic criteria. I will tell you
20 briefly some of the criteria, that we really wanted them
21 to have a strong research infrastructure because we
22 believe without the data, people will not adopt these

1 behaviors.

2 Secondly, they had to have the ability to
3 implement and apply these therapies in a clinical
4 setting. So, we targeted specific cardiac and neurologic
5 diseases, so that some of the centers to date that we
6 have funded are Duke, Harvard, Stanford, Scripps, Alina
7 Health Care Systems, St. Barnabas, Beth Israel, New York,
8 with several others that we are investigating.

9 The first year and a half we focused on
10 cardiovascular disease. This year we are focusing on
11 neurologic, and we specifically are looking at pain. So,
12 as an example of the way we are using our dollars in
13 philanthropy is at Beth Israel in New York, they have the
14 top pain guru who sits within the Beth Israel campus and
15 20 blocks away they have the leader in integrative
16 healing within the same health care system, and with our
17 dollars we have asked them to work together and to build
18 an integrative model of pain management.

19 My ultimate goal is across the country, through
20 our support, we will build integrative centers of
21 excellence around specific disease and device entities,
22 so that you could look on the Internet or a patient could

1 find the integrative center of excellence for pain, the
2 integrative center of excellence for coronary artery
3 disease, et cetera.

4 So, through, as Dr. Eisenberg alluded to, I
5 think the most important thing about our funding of these
6 centers is that all of them have said to us we are not
7 just interested in your dollars, we are interested in
8 true collaboration among the centers, because there is
9 nothing more frustrating to me than to see 10 different
10 spirituality surveys or 30 different proposals on whether
11 guided imagery works, and 10 different ways to measure
12 pain and anxiety, and there is no ability to pool the
13 data at these different centers.

14 So, they have agreed to do three things - to
15 share a common database, to share common assessment
16 tools, and to share in the dissemination of the findings,
17 so that others might learn.

18 Lastly, and most importantly, they have agreed
19 to collaborate in the training of future leaders on
20 healing. By this, I don't mean setting a medical school
21 curriculum on how you teach people which herb works, how
22 it works, sort of like memorizing the Krebs's cycle or the

1 mechanism of action, but rather how do you teach people
2 what the core principles and values are around healing
3 and how you apply these therapies.

4 As an example, to demonstrate how we are hoping
5 to disseminate these findings, this is not anything I am
6 pushing, but this is the brochure that I will leave
7 behind from the American College of Cardiology, the first
8 conference ever on the integration of complementary
9 medicine in a traditional cardiology practice.

10 One of the participants here said to me he
11 never thought in his lifetime he would see the ACC
12 sponsor a meeting on this subject. So, in this program,
13 the CEO of Medtronic will be the keynoter and then I will
14 have a panel where we profile the centers that we have
15 funded to date, but I think that's miraculous. We have a
16 long way to go, though.

17 Third, what are our obstacles? My greatest
18 obstacle is not the absence of data, and personally and
19 professionally, inside Medtronic, my greatest obstacle is
20 the perception that I am about building alternative
21 clinics. I believe that what I have found is the
22 greatest obstacle as I talk around the country to people

1 who have built these models or are trying to build them,
2 I ask them, what is your greatest obstacle, and they tell
3 me it's, number one, the physicians -- and I am one --
4 and number two, the administrative leaders.

5 So, I could not agree more with what Dr.
6 Eisenberg said about the need to have an institution or
7 an entity that can train current faculty and future
8 leaders and administrators of these health care systems
9 that can help us get the adoption of these models into
10 place.

11 So, what are our recommendations to you? I
12 have five brief recommendations.

13 The first would be to broaden your mission and
14 your focus to include study of the delivery mechanism or
15 the context in which this care can be delivered. First
16 is just the safety, efficacy, licensure. We are trying
17 to do that through the centers that we are working with,
18 and I will talk about further, we would like to figure
19 out a way to collaborate with the work that you are
20 doing.

21 Secondly, I would eliminate terminology that
22 will exclude or delay the adoption of these healing

1 practices. I believe those words are alternative and
2 complementary. When I work with these cardiologists,
3 these neurosurgeons, and they hear that I am coming to a
4 committee like this or hear these terms, they run for the
5 hills.

6 So, I think that there is a need to establish
7 something like an academy for health and healing, and
8 under that are boards and panels that look at the safety
9 and efficacy, licensure, et cetera.

10 Third, I would create a vehicle or a mechanism
11 to keep informed of the work that philanthropy is
12 supporting. There has got to be a way that we can
13 communicate and relay the information of the best
14 practices or the findings that we know about.

15 Fourth, I would establish an entity, a
16 committee or academy, that then takes these findings and
17 proactively works to shape policy and reimbursement.

18 Lastly, I would recommend that you seek and
19 support educational initiatives that foster a new breed
20 of leaders who can drive the adoption of these best
21 practices, thereby allowing patients access to the best
22 that medicine has to offer.

1 Thank you for your time and thank you for the
2 invitation to be here.

3 DR. GORDON: Thank you. Thank you for your
4 precision and concision.

5 Doriane Miller, welcome back.

6 **Presenter: Doriane Miller, M.D.**

7 DR. MILLER: Thank you, Dr. Gordon.

8 Yesterday, I had the opportunity to talk with
9 you a little bit about minority and under- and uninsured
10 issues regarding CAM, and today, I would like to put on a
11 slightly different hat, and that is the role that I serve
12 at the Robert Wood Johnson Foundation as Director of the
13 Program Development and Grantmaking in the area of
14 clinical care management.

15 For those of you who are unfamiliar with the
16 Foundation, the Robert Wood Johnson Foundation was
17 established as a national philanthropy in 1972, and is
18 dedicated to the health and health care of people in the
19 United States.

20 We fund programs in three major areas -
21 increasing access to health care services, providing care
22 and support for people with chronic health conditions,

1 and reducing the harm from substance use.

2 From an asset base of approximately \$8 billion,
3 we will fund about \$400 million in grants this year only
4 in the area of health and health care.

5 In preparation for my testimony today, I
6 reviewed the Robert Wood Johnson Foundation's grantmaking
7 in the area of CAM for the committee. You will find in
8 your packets a summary of selection of those grants,
9 which I think actually range pretty much across the board
10 in terms of the area.

11 However, for the purposes of the discussion
12 today, I think that it would be helpful for the
13 Commission to hear a little bit about how our
14 philanthropy and actually many other health
15 philanthropies think about strategic decisionmaking when
16 making decisions about what projects to fund.

17 In my opening comments, I mentioned many areas
18 of Robert Wood Johnson Foundation, but within these broad
19 goals, narrower focused areas help Foundation staff to
20 direct their programmatic development and grantmaking,
21 and also helps grant applicants to understand our
22 strategic priorities.

1 Within these areas, staff link program
2 development and grantmaking to measurable strategic
3 objectives. We based our program development and funding
4 decisions on a specific project's ability to contribute
5 to achieving the strategic objectives.

6 The Foundation funds projects that use the
7 tools of research and policy analysis, demonstration,
8 education, and training, communications and evaluations
9 to achieve those strategic objectives.

10 The area that I am responsible for is the
11 clinical care management area at the Foundation, which is
12 designed to narrow the gap between what is known and what
13 is practiced in health delivery systems today for people
14 with chronic medical conditions.

15 We attempt to effect change in three strategic
16 areas - change in purchaser behavior to support the
17 delivery of evidence-based medicine, improving delivery
18 system capacity to provide evidence-based medicine, and
19 also engaging people both as consumers and also as
20 patients to become more involved in evidence-based
21 medical care.

22 The projects that we funded are both cross-

1 cutting in terms of those strategic elements that I
2 mentioned, but also disease specific.

3 Some examples of these projects include a
4 project in Adina, Minnesota, that has developed a
5 protocol for depression screening in an adult day center,
6 a project in Lafayette, Colorado, that is working to
7 improve community resources to support chronic illness
8 self-management within a low-income, Spanish-speaking
9 population, and a project at the Medical University of
10 South Carolina that is testing the benefit of group
11 visits for low-income people with Type 2 diabetes.

12 The focus that I want to make here is that we
13 have not a basic science focus or even looking at best
14 practices, but much more of a translational agenda, and
15 that is looking at ways in which we can take evidence-
16 based and translate it into implementation on a
17 widespread basis.

18 How does this translational agenda affect our
19 view of funding CAM research? If there were sufficient
20 evidence that a particular CAM approach to treatment
21 could positively affect the outcome of a treatment of a
22 condition we are targeting, we would consider funding CAM

1 as a part of a total program or system of care.

2 CAM is not currently an area of strategic
3 funding for the Robert Wood Johnson Foundation, nor are
4 we considering making it a funding priority for the
5 Foundation.

6 To the extent that current and future CAM
7 research and implementation could help to make
8 improvements in our strategic funding areas, however, we
9 would consider funding CAM on a case-by-case basis.

10 The Robert Wood Johnson Foundation has
11 tremendous experience in the area of convening, training,
12 and demonstrations in the health field. We had the
13 opportunity to collaborate with the Medtronic Foundation
14 just this summer on a project that looked at issues
15 around patient empowerment and consumer activation.

16 If we chose to become more active in the area
17 of CAM, we would draw upon these experiences to help
18 stimulate more activity and interest in CAM, and we would
19 also welcome public and private funding partners in this
20 endeavor.

21 Thank you for your time.

22 DR. GORDON: Thank you very much.

1 Susan Braun, nice to see you.

2 **Presenter: Susan Braun**

3 MS. BRAUN: Good morning. Thank you for
4 inviting us to speak. I am Susan Braun. I am CEO of the
5 Susan G. Komen Breast Cancer Foundation, which was
6 started in 1982 by Nancy Brinker in honor of the memory
7 of her sister who was Susan Komen, who died of breast
8 cancer at the age of 36.

9 Since that time, we have grown from just a
10 group of a few people who have an interest in what breast
11 cancer does to men and women with the disease, into a
12 network now of 115 affiliates in the United States, in 45
13 of our 50 states, and we have three international
14 affiliates.

15 We have about 70,000 active volunteers, and to
16 date we have raised more than \$400 million towards our
17 mission, which is to eradicate breast cancer through
18 research, education, screening, and treatment.

19 I will talk a little bit about our own
20 approaches to CAM and what we are looking towards in the
21 future, but I also want to point out one way in which our
22 foundation model is perhaps uniquely suited to address

1 some of the questions that we are needing to address
2 here, and that is because our primary base, our primary
3 group of constituents are the public.

4 For example, our Race for the Cure events,
5 which are our major fundraiser, although by no means our
6 sole fundraiser, will have more than a million
7 participants this year, and our corporate sponsors are
8 million dollar council members are Kelloggs and G.E. and
9 Lee Jeans and American Airlines, Ford, a lot of large
10 corporations like that, and yet we are the largest
11 private funder of breast cancer research.

12 We fund a great deal of basic clinical and
13 translational research, to date more than \$68 million we
14 have put into those programs, and pretty much following
15 the model that Dr. Eisenberg put forth and which you all
16 are familiar with within the academic institutions of the
17 United States and around the world.

18 So, we really bridge that gap between who the
19 public is, what the public wants, and then research that
20 have followed those interests of the public, so much of
21 our determination as to what we will be funding comes
22 from the public interest, although it is driven certainly

1 in terms of which proposals are accepted by peer-reviewed
2 processes and by the scientific community.

3 Our choices as to what we will fund are very,
4 very much driven by the public, and they are driven by an
5 interest in filling gaps, in doing what isn't being done
6 by someone else out there and doing things that we are
7 particularly well suited to do.

8 Another thing, too, about Komen is we really
9 didn't get to where we are today by following the status
10 quo. Although somehow we have become a real major player
11 in grantmaking, it wasn't because that is what we sought
12 to do, but it was really because we followed the
13 emotions, the needs, and the demands of the public, and
14 the public is not accepting that breast cancer doesn't
15 have answers yet, just as they aren't accepting that
16 cancer doesn't have answers yet, and that is what
17 continues to fuel what we do.

18 So, we plan to continue to ask all of the
19 difficult questions, both those inside and outside of the
20 proverbial box.

21 We also are pretty aware of most of the
22 statistics and surveys that have been done and

1 particularly one that looked at cancer patients, finding
2 that 50 percent of those patients who were surveyed did
3 combine complementary and alternative modes of care with
4 their conventional care, but also that breast cancer
5 patients are more likely than other cancer patients to
6 use complementary and alternative medicines and/or
7 therapies, and we find again and again and again without
8 constituency base this interest and this need in
9 continuing with these therapies, but also in
10 understanding them better scientifically.

11 So, I believe that one of the things that we
12 need to help do, and will do, is identify the dichotomy
13 that was pointed out between people, the public wanting
14 to have proven therapies, wanting to have data, but yet
15 also interestingly a willingness to continue along with
16 something that has not been proven, and I think we are in
17 a good place to help identify and understand that
18 dichotomy.

19 You had asked about our specific endeavors
20 within the field of complementary and alternative
21 medicine, and we do have now in last year's portfolio,
22 which was \$19.2 million in grants, and this is just

1 within our structured grant programs. We also have
2 thousands and thousands of community programs that we
3 fund that are educational and outreach programs.

4 We funded over a million dollars in
5 complementary and alternative, within that part of the
6 portfolio, and then also programs within the community,
7 such as wellness and improvement in quality of life.

8 One of the things, for example, that I wanted
9 to highlight within our portfolio is research that is
10 being done on black cohosh. I think many of you are
11 familiar with some of the recent reports that identify
12 that this substance might have estrogenic properties.

13 Breast cancer survivors and those who are
14 either at risk of breast cancer or who fear breast
15 cancer, whether they are truly at higher risk than the
16 average or not, are increasingly reluctant about taking
17 estrogen replacement therapies although a definitive link
18 to breast cancer is still debated.

19 So, we find, for example, not only in patients,
20 but in well women who either fear or are at high risk for
21 the disease are not going to take estrogen, so they will
22 look to alternatives.

1 Well, we have also begun to recognize, for
2 example, that with black cohosh, there is a concern about
3 is it tumorigenic or does it cause the lining of the
4 uterus, for example, to expand, and so we are funding a
5 study that is being done by Vicky Davis at Cedars-Sinai
6 Medical Center that will look at black cohosh, and that
7 will look at its activity particularly in the breast and
8 whether or not it does accelerate breast tumor
9 development.

10 We are also, though, looking more and more, not
11 only in our funding, but also in the programs that we are
12 a part of or that we fund in the community, at areas such
13 as spirituality and other forms of healing that are not
14 necessarily invasive.

15 We have recently had Larry Daucy [ph] come and
16 speak to a group of us in Dallas as a part of a lecture
17 series that we helped to fund, and I think what is so
18 fascinating -- and I sat in as he spoke to the medical
19 staff at Baylor, and he spoke to our folks, so he spoke
20 to a number of audiences -- and what is fascinating to me
21 in this, and as I have spoken about his visit since then
22 -- I do a lot of public speaking -- how it grabs the

1 attention of everyone there.

2 I spoke to a large group in Little Rock late
3 last week, and when I began to talk about that and what
4 Larry Daucy had done, the room was perfectly silent, and
5 afterwards -- and I had talked about many things, I spoke
6 for almost 45 minutes -- and that is what people came up
7 to, wanted to share their stories and talk to me about.

8 So, there is this huge groundswell clearly of
9 interest, and rather than go on too much further with all
10 of this, because you have my remarks, a couple of
11 recommendations that I would like to make specific to
12 what we have been finding and to the public interest that
13 we are seeing around us is working with patients, and it
14 is something that we will be funding more to, talking to
15 patients and talking to consumers who have a high health
16 care interest, about that dichotomy that was pointed out
17 earlier and what it is that we need to find out in that,
18 not necessarily just how do we close that gap, but what
19 is that telling us.

20 I think, too, especially as we talk to cancer
21 doctors, I was at the American Society of Clinical
22 Oncology meeting that is taking place this week in San

1 Francisco, 28,000 very mainstream cancer professionals,
2 and one of the areas that they are most concerned with,
3 of course, is medical interactions, what is going on with
4 the things that patients ingest as they are having
5 chemotherapy, radiotherapy, for example.

6 So, we would like to suggest a strong
7 differentiation between those things that are ingested or
8 at least that -- can I finish my sentence --

9 DR. GORDON: Go ahead.

10 MS. BRAUN: -- but that have a potential for a
11 toxic effect compared to those that have a more
12 complementary or a potential for a healing effect in a
13 different way, so the differentiation.

14 Also, I think as I sit here with, in the world
15 of not-for-profit funding, a funder's consortium,
16 bringing together funders to say what are you doing
17 compared to what are you doing, what are you doing, so
18 that we are doing things in ways that work together as
19 opposed to reinventing wheels.

20 Then, I think, very importantly, when we talk
21 about what isn't there in basic science, there has been
22 no question from our experience in the funding of breast

1 cancer research, both our own and then what has happened
2 at the National Institutes of Health, the Department of
3 Defense, and other funders, that the basic scientists
4 really do, as they choose their career, look at where
5 they are going to be able to be funded, so that they
6 continue the science that they want so desperately to
7 study.

8 Our Young Investigators program and our
9 Fellowship programs have demonstrated that in spades, so
10 I think it would be very important if we want to see more
11 basic research, to fund young scientists who are
12 interested in the field.

13 Thank you very much.

14 DR. GORDON: Thank you very much.

15 Susan Samueli. Welcome.

16 **Presenter: Susan Samueli**

17 MS. SAMUELI: Thank you very much, and I am
18 very honored to be here today.

19 After spending 20 years of studying homeopathy
20 and nutrition, I am very excited that the government is
21 beginning to focus much more in this area. I would like
22 to spend my time today before you to share with you the

1 vision and the history of the Samueli Foundation and the
2 Samueli Institute for Information Biology.

3 The Samueli Foundation was created by my
4 husband and myself as a way to express our philanthropic
5 interest. My husband, Dr. Henry Samueli, while a
6 Professor of Electrical Engineering at UCLA, was
7 successful in creating broadband technology, which
8 eventuated in his co-founding the company Broadcom, Inc.

9 The success of this company has brought us
10 great wealth, and it is our privilege to return a good
11 portion of this to our community in the forms of grants
12 and gifts.

13 Through our foundation, we have funded various
14 projects and programs in the areas of education,
15 religion, social services, and fine arts, but because of
16 my passion for the study of alternative and complementary
17 medicine, we are committed to support scientific research
18 that will affirm the credibility that this field so
19 deserves.

20 Much of the public is utilizing various
21 modalities and interventions that are placed under the
22 complementary medicine umbrella. Current documentation