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UNITED STATES OF AMERICA
DEPARTMENT OF HEALTH AND HUMAN SERVICES
PUBLIC HEALTH SERVICE
FOOD AND DRUG ADMINISTRATION
CENTER FOR DRUG EVALUATION AND RESEARCH
NONPRESCRIPTION DRUGS ADVISORY COMMITTEE
DENTAL PLAQUE SUBCOMMITTEE

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MEETING

FRIDAY
MAY 29, 1998

The meeting took place in the Walker and Whetstone Rooms, Holiday Inn Gaithersburg, 2 Montgomery Village Avenue, Gaithersburg, Maryland at 8:30 a.m., Robert J. Genco, DDS, PhD, Chair, presiding.

PRESENT:

ROBERT J. GENCO, DDS, PhD	CHAIR
RHONDA W. STOVER, RPh	EXECUTIVE SECRETARY
WILLIAM H. BOWEN, PhD, DSc	MEMBER
RALPH D'AGOSTINO, PhD	MEMBER
MAX A. LISTGARTEN, DDS	MEMBER
SHEILA MCGUIRE-RIGGS, DDS, DMSc	MEMBER
EUGENE D. SAVITT, DMD	MEMBER
STANLEY R. SAXE, DMD, MSD	MEMBER
CHRISTINE D. WU, PhD	MEMBER
LEWIS P. CANCRO	INDUSTRY LIAISON REP
FRED HYMAN, DDS, MPH	FDA REPRESENTATIVE
LINDA KATZ, MD, MPH	FDA REPRESENTATIVE
ROBERT SHERMAN	FDA REPRESENTATIVE
R. WILLIAM SOLLER, PhD	SPEAKER

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ALSO PRESENT:

MICHAEL BARNETT, DDS

NANCY BUCK

PETER HUTT

BRUCE KOHUT, DMD

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P-R-O-C-E-E-D-I-N-G-S

8:32 a.m.

CHAIRMAN GENCO: This morning we have four items, the culmination, considerations for culminations. We'll finish up dosage and performance standards, the microbiologic testing. And then the directions for use. So I'd like to, again for the record, have each of the individuals at the table introduce themselves. Let's start with Fred.

MR. HYMAN: Fred Hyman, Dental Officer, Division of Dermatologic and Dental Drugs, FDA.

DR. KATZ: Linda Katz, Deputy Director, OTC.

MR. SHERMAN: Bob Sherman, Division of OTC Drug Products, CDER Liaison.

MR. SAVITT: Gene Savitt, Forsyth Dental Center, private practice.

DR. LISTGARTEN: Max Listgarten, University of Pennsylvania.

DR. RIGGS: Sheila Riggs, Oral Epidemiologist, Iowa.

CHAIRMAN GENCO: Bob Genco, University of

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1 Buffalo.

2 MS. STOVER: Rhonda Stover, FDA.

3 DR. BOWEN: Bill Bowen, University of
4 Rochester.

5 MR. SAXE: Stanley Saxe, University of
6 Kentucky.

7 DR. WU: Christine Wu, Periodontics,
8 University of Illinois at Chicago.

9 DR. D'AGOSTINO: Ralph D'Agostino, Boston
10 University.

11 MR. CANCRO: Lew Cancro, IRR.

12 CHAIRMAN GENCO: Thank you. And now
13 Rhonda, you'll make a statement.

14 MS. STOVER: The following announcement
15 addresses the issue of conflict of interest with
16 regard to this meeting and is made a part of the
17 record to preclude even the appearance of such at this
18 meeting. For the next several months the Subcommittee
19 will review information on ingredients contained in
20 products bearing anti-plaque and anti-plaque related
21 claims to determine whether these products are safe
22 and effective and not misbranded for their label use.

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1 Since the issues to be discussed by the
2 Subcommittee will not have a unique impact on any
3 particular firm or product, but rather may have
4 widespread implications with respect to an entire
5 class of products in accordance with 18 United State
6 Code 208B, waivers have been granted to each member
7 and consultant participating in the Subcommittee
8 meeting.

9 A copy of these waiver statements may be
10 obtained from the Agency's Freedom of Information
11 Office, Room 12-A-30, Parklawn Building. In the event
12 that the discussions involve any other products and
13 firms not already on the agenda for which an FDA
14 participant has a financial interest, the participants
15 are aware of the need to exclude themselves from such
16 involvement and their exclusion will be noted for the
17 record.

18 With respect to all other participants, we
19 ask in the interest of fairness, that they address any
20 current or previous financial involvement with any
21 firm who's products they may wish to comment upon.

22 CHAIRMAN GENCO: Are there any comments?

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1 (No response.)

2 CHAIRMAN GENCO: Okay, thank you, Rhonda.
3 I'd like now to introduce Dr. Bill Soller, who will
4 discuss combination anti-plaque, anti-gingivitis
5 ingredients. Good morning, Bill.

6 DR. SOLLER: Good morning Dr. Genco,
7 members of the panel. It's on I believe. Can you
8 hear me? Now that we have the technics down, good
9 morning, Dr. Genco, members of the panel. I'm Dr.
10 Bill Soller, Senior Vice President and Director of
11 Science and Technology for the Non-Prescription Drug
12 Manufacturers Association. And I'm here representing
13 the NDMA/CTFA Joint Oral Care Task Group. And it's a
14 pleasure to return to the three-day plaque-a-thon.

15 (Laughter.)

16 DR. SOLLER: We're here to talk about OTC
17 combination policy and I will make a brief remark
18 relating to my use of the term anti-plaque/anti-
19 gingivitis. I won't go into the description of that,
20 but it's the same remark I made yesterday about
21 referring to this as anti-gingivitis. Or anti-
22 plaque/anti-gingivitis or anti-plaque.

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1 Now what I'd like to talk about is FDA's
2 combination policy, the types of combinations that are
3 permitted, examples from the OTC Review, our
4 recommendations and then I'll circle around to the
5 statement of identity on combinations, because that
6 wasn't really dealt with yesterday and we'll have
7 similar slides to what I presented yesterday, though
8 they don't appear in this particular set of handouts
9 that you have.

10 We sent you materials last week pertaining
11 to our comments on the combination policy. We have
12 handouts here and I've provided you with a brief
13 presentation at the last meeting regarding our
14 recommendations on the combination policy and
15 combination products in this rule making. FDA's OTC
16 combination policy appears in 21 CFR, Section 331-0.
17 An OTC drug may combined two or more safe and
18 effective active ingredients and may be generally
19 recognized as safe and effective with three provisos.

20 And those are, when each active ingredient
21 makes a contribution to the claimed affect. When the
22 combining of the active ingredients does not decrease

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1 the safety or effectiveness of the individual active
2 ingredients. And when the combination, when used
3 under adequate directions for use and warnings against
4 unsafe use, provides rational concurrent therapy for
5 a significant proportion of the target population.

6 And all of this, in the context of the
7 definition of effectiveness and that is a reasonable
8 expectation that in a significant proportion of the
9 target population the drug will provide relief of the
10 type claimed. FDA's OTC Combination policy is long-
11 standing. It's supported by companion FDA guidelines,
12 supported by previous OTC Advisory Panels that have
13 all considered this and then acted upon this
14 particular policy creating their own particular
15 recommendations for OTC combinations per those rule
16 makings.

17 And is supported by the inclusion of many
18 different types of combinations in a wide variety of
19 OTC review rule makings. And I might add, also
20 supported by the successful marketing experience of
21 these drugs over their 25 year or so history of this
22 particular combination policy. Let's take a look at

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1 some examples from the OTC review. Here in the upper
2 left hand corner, Cough/Cold Products, where there are
3 four different pharmacological categories.

4 And the combination policy allows you to
5 pick one analgesic from this category, a nasal
6 decongestant, a cough suppressant, antihistamine, so
7 you might have dextromethoraphan, pseudoephedrine,
8 aspirin and chlorpheniramine. Or it might be
9 dextromethoraphan, phenylpropanolamine, acetaminophen
10 and brompheniramine in that kind of construct.
11 Products you've probably used at one time or another.

12 Internal analgesics. Two internal,
13 different internal analgesics plus an analgesic
14 adjuvant. For sunburn, three sunscreens. So here you
15 have one pharmacologic class picking three different
16 actives from that one class. Or a sunscreen, skin
17 protectant in the lower left and here it would be
18 taking from two different monogram rule makings a
19 particular active ingredient.

20 And the top of the topical ophthalmics may
21 be the pinnacle of the application of this policy, and
22 I won't run down these, but there are many different

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1 types of mix and matches that are permitted per the
2 OTC policy. So in some, FDA's long-standing policy
3 allows us to see that there's precedent in the OTC
4 review for many different types of combinations.

5 From combining ingredients from different
6 pharmacologic categories, or taking ingredients from
7 different monographs. And that's what we'll be
8 talking about in a moment. Provided that each active
9 contributes to the claimed affect, that by combining
10 you do not reduce the safety and effectiveness of each
11 of the actives. And that the combination provides
12 rational, concurrent therapy.

13 All of this, in the context of the
14 definition of effectiveness, a reasonable expectation
15 of effective and remembering that the OTC combination
16 policy is supported by a remarkable record of safety
17 across all OTC categories spanning some 25 years. So
18 our recommendations are for an anti-plaque, anti-
19 gingivitis agent plus an anti-caries agent. Anti-
20 plaque, anti-gingivitis plus a tooth desensitizer,
21 potassium nitrate in this case.

22 Anti-plaque, anti-gingivitis plus anti-

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1 caries plus tooth desensitizer and the combination of
2 an anti-plaque, anti-gingivitis active ingredients,
3 though not reviewed or recommended rather for category
4 one status here, mainly a theoretical consideration at
5 this point.

6 Let's go ahead and take a look at these
7 one at a time. The anti-plaque, anti-gingivitis plus
8 anti-caries agent, here our rationale is that caries
9 and gingivitis are distinct pathological entities.
10 They can be treated by different active ingredients.
11 They affect consumers throughout their lifetime. Just
12 by way of example, we included the epidemiologic study
13 by Hand and the clinical trials by Jensen, Kohout and
14 Lu describing dental caries being a continuing problem
15 in the adult population.

16 And that significant reductions in caries
17 incidents can be achieved with fluoride-containing
18 dentifrices in adults. Of course on the gingivitis
19 side, the many studies that have been submitted to you
20 and we've talked about this a couple of times over the
21 last two days, mainly in an adult population. So that
22 a stannous fluoride product, in this particular rule

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1 making recommended as category one combination, is
2 actually a combination in one, having intrinsic
3 fluoride, anti-carries activity through that mode but
4 also an anti-gingivitis affect.

5 But in the rinse category, a fluoride
6 rinse plus CPC, or a fluoride rinse plus a fixed
7 combination or by way of another example, a fluoride
8 plus CPC dentifrice would be appropriate combinations.
9 Thinking now about an anti-plaque, anti-gingivitis
10 agent plus a tooth desensitizer. Descriptions by
11 Flynn and Dowell about a eight to 30 percent
12 prevalence in adults. Usually in the younger age
13 group. Usually on the facial surfaces, canines, pre-
14 molars. And common stimuli such as tooth brushing,
15 digital probing, hot and cold, acids and sweet causing
16 considerable discomfort for the sufferer.

17 Orchardson has talked about a 68 percent
18 incidence of hyper-sensitive teeth having significant
19 gingival recession. Usually a chronic condition with
20 acute episodes. So our rationale in thinking about
21 the four week duration of use for the category one
22 labeling for OTC tooth desensitizers would be that the

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1 proposed combination would allow continued anti-
2 gingivitis, anti-plaque treatment during episodes of
3 dental hyper-sensitivity.

4 And then looking at the third combination,
5 the anti-gingivitis, anti-plaque, anti-caries plus
6 tooth desensitizing agent. Here the rationale is very
7 similar to the one I just gave. It would allow
8 recognizing the four week duration of use for the
9 tooth desensitizer. It would allow the proposed
10 combination to provide continued anti-gingivitis,
11 anti-plaque and anti-caries treatment during episode
12 on dental hyper-sensitivity.

13 These are not included in the hand out
14 packet that you have now, but were shown to you
15 yesterday. And what I'd like to do is just take a
16 brief sojourn back to the issue of statement of
17 identity as it would be applied to combinations, and
18 I mentioned this yesterday. Here again is the Summary
19 of Recommendations for the anti-gingivitis, anti-
20 plaque plus anti-caries. Anti-gingivitis, anti-plaque
21 plus tooth desensitizing. Anti-gingivitis, anti-
22 plaque plus anti-caries plus tooth desensitizing

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1 combinations that I've just talked about.

2 And I showed this slide yesterday.
3 Remembering as we went back to the statement of
4 identity for single ingredient, it would be the
5 established name of the drug, anti-gingivitis
6 toothpaste. So it would be cetylpyridinium chloride,
7 anti-gingivitis mouth rinse, for example. And that's
8 what you looked at yesterday. Here when you combine
9 a statement of identity from another monograph, you
10 have to sort of fit it in from a rational, English
11 construct standpoint either before or after your
12 particular statement of identity here.

13 And let's take a look at an example. So
14 that for the combination policy where you do not have
15 to express, per regulation, the established name of
16 the drug, but the principle intended action as the
17 statement of identity. And recognizing that the
18 active ingredient listing would be there on the label
19 so that you're not having a label that would not
20 express what the active ingredient is.

21 It would be there, probably first among
22 the information on the information panel with FDA's

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1 new proposal. But here, if we took an anti-cavity,
2 anti-plaque, anti-gingivitis dentifrice, which might
3 be a fluoride CPC dentifrice, by way of example. Or
4 an anti-cavity, anti-gingivitis toothpaste for
5 sensitive teeth. Taking that same example, the
6 fluoride CPC plus potassium nitrate dentifrice.

7 Or perhaps a fixed combination, not shown
8 here, plus fluoride, which would be anti-cavity, anti-
9 plaque, anti-gingivitis mouth rinse. And that's how
10 the statement of identity would appear per the current
11 regulations for statement of identity pertaining to
12 combinations. So in conclusion, just returning, these
13 are there basic combinations that we are requesting
14 the panel review and affirmatively include in your
15 panel report. Thank you very much.

16 CHAIRMAN GENCO: Thank you, Dr. Soller.
17 Are there any comments or questions from the panel?

18 (No response.)

19 CHAIRMAN GENCO: Okay, shall we proceed
20 then to Page 15, the Summary that was presented to us.
21 Any comments about the anti-gingivitis, anti-plaque,
22 anti-caries combination.

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1 DR. LISTGARTEN: Bob.

2 CHAIRMAN GENCO: Yes.

3 DR. LISTGARTEN: Can you just refresh our
4 memories about some of the debate from yesterday when
5 we discussed the terminology, anti-plaque, anti-
6 gingivitis. Are we going to use that terminology?
7 Are we going to only use anti-gingivitis? I'm still
8 a bit in the fog about what the outcome was.

9 CHAIRMAN GENCO: With respect to the
10 statement of identity, we had two categories, anti-
11 gingivitis and anti-plaque, anti-gingivitis. It was
12 turned, yeah, it was anti-gingivitis, anti-plaque,
13 right. So let's first discuss the culminations that
14 might be rational for advice and then the statement of
15 identity, which is how it's expressed.

16 MR. SHERMAN: I just want to say,
17 determine which combinations would be rational and
18 then --

19 CHAIRMAN GENCO: And then what --

20 MR. SHERMAN: -- apply your statement of
21 identity.

22 CHAIRMAN GENCO: Okay. So let's talk

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1 about the anti-gingivitis, anti-plaque, anti-caries.
2 That's the first combination. Is there any, this is
3 not the statement of identity, but the combination of
4 anti-caries, anti plaque -- anti-gingivitis, anti-
5 plaque plus anti-caries. Any problem with that?

6 DR. RIGGS: Was there some discussion
7 yesterday that the slash was confusing. We wouldn't
8 want to in any way say you could have anti-plaque plus
9 anti-caries agent?

10 CHAIRMAN GENCO: Yeah. Let's, let's talk
11 about first the combinations.

12 DR. RIGGS: Okay.

13 CHAIRMAN GENCO: And not the english. The
14 english would be in the statement of identity and
15 we'll talk about that next, if you don't mind. So
16 agents which have anti-gingivitis, anti-plaque
17 activity, combined with an agent which has anti-caries
18 activity. That's the combination, I guess, we're
19 advising the FDA. Is that a reasonable combination
20 given that fulfills all the criteria of safety,
21 efficacy and the efficacy isn't compromised by making
22 the combination?

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1 (No response.)

2 CHAIRMAN GENCO: Okay, so I take that as
3 affirmation. Essentially it already exists with the
4 Colgate product. Okay, with respect to now the second
5 combination. An agent which has anti-gingivitis,
6 anti-plaque activity and combined with an agent which
7 is a tooth desensitizer. Reasonable combination? Any
8 comments, objections?

9 (No response.)

10 CHAIRMAN GENCO: Okay. The third category
11 is all three of those, anti-gingivitis, anti-plaque
12 agent combined with an anti-caries agent, combined
13 with a tooth desensitizing agent.

14 (No response.)

15 CHAIRMAN GENCO: And I take this to mean
16 one of each category. We'll get to the possibility of
17 multiple, of single categories. Bill.

18 DR. BOWEN: I have a question for the
19 staff of the FDA or anyone else who can answer. What
20 are the obligations if I add a desensitizing agent to
21 a proven anti-caries, fluoride toothpaste? Do you
22 have to go through the testing, the animal testing,

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1 the fluoride uptake. Okay, thank you.

2 CHAIRMAN GENCO: Of the final formulation?
3 Okay. So presumably also, Bill, the final formulation
4 with the tooth desensitizing agent would also have to
5 be tested for anti -- the performance standards for
6 anti-gingivitis, anti-plaque that we discussed? Okay.
7 Sheila.

8 DR. RIGGS: Would there be any claims
9 about root caries versus caries in enamel with that?

10 CHAIRMAN GENCO: What's the present status
11 of the anti-caries claims? Although we haven't really
12 dealt with that. That would be in the monograph.

13 MR. SHERMAN: Those would be the same. It
14 would be the same as in the final monograph for any
15 caries.

16 CHAIRMAN GENCO: Okay, whatever is allowed
17 now.

18 DR. SOLLER: Right. Do you want me to
19 read it? Would you like me to read it?

20 CHAIRMAN GENCO: Sure.

21 DR. SOLLER: Bill Soller. Aids in the
22 prevention of dental select one of the following,

1 cavities decay, caries bracket decay or caries bracket
2 cavities.

3 DR. LISTGARTEN: So it doesn't specify.

4 CHAIRMAN GENCO: So the root surface
5 versus enamel is not part of that. Okay let's get
6 back to the anti-gingivitis, anti-plaque, anti-caries
7 and tooth desensitizing, those three, one of each in
8 that three-fold combination. Any problem with that,
9 any comments, questions?

10 (No response.)

11 CHAIRMAN GENCO: Okay. One that we
12 haven't really talked about is this combinations of
13 two or more anti-plaque, anti-gingivitis active
14 ingredients. Stannous fluoride with CPC for example.
15 We haven't really discussed that. We're being asked
16 to make some comments about that. Again --

17 DR. LISTGARTEN: Well, I think if the
18 combination is rational and this may be a rational
19 combination since one provides fluoride and the other
20 one acts in a different manner. If in fact the two
21 are additive or synergistic, I guess that would be
22 acceptable. They would have to be at least additive.

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1 CHAIRMAN GENCO: Okay. What is the, what
2 is the FDA policy to combinations of single class, two
3 or more of a single class. Do you they have to show
4 superiority to either used singly?

5 DR. KATZ: They have to show a benefit.

6 CHAIRMAN GENCO: A benefit from being used
7 as a combination.

8 DR. KATZ: That's right. But there has to
9 be some benefit for having both of them together --

10 CHAIRMAN GENCO: Okay.

11 DR. KATZ: -- to be allowed.

12 CHAIRMAN GENCO: Okay. Yes.

13 MR. SAXE: When you say benefit, you mean
14 that there is just a rationalization of their use as
15 a benefit, or you mean a benefit shown in some sort of
16 a study invitro or invivo that there is an enhanced
17 benefit to the consumer.

18 DR. KATZ: A benefit in a study. Whatever
19 study is deemed appropriate for those particular
20 products. But it's felt that in order to combine two
21 from the same category, that there clearly has to be
22 a benefit from each of those ingredients that are

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1 combined.

2 CHAIRMAN GENCO: Okay, so the --

3 DR. KATZ: And again, it has to be a
4 demonstrable benefit.

5 MR. SAXE: But this some benefit does not
6 have to exceed that which could be achieved by any
7 single ingredient?

8 DR. KATZ: That's correct.

9 MR. SAXE: Each simply has to contribute
10 in some fashion.

11 DR. KATZ: To contribute to it and you
12 have to be able to demonstrate that each has a
13 benefit. So that if by combining the two of them, but
14 there is not a benefit, that if you have a benefit
15 demonstrated from one but not from the other, then the
16 two could not be combined. Or if combining to of
17 them, one as a detrimental affect on the other, they
18 could not be combined.

19 But if you're able to demonstrate they
20 both have a benefit then they could be combined. It
21 doesn't, the, for the OTC it doesn't specify that it
22 has to be a significant benefit above that, but it

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1 just has to have a benefit. And the two together, you
2 have to demonstrate have a benefit in the, when
3 they're combined together.

4 CHAIRMAN GENCO: So, let me see if I
5 understand that.

6 DR. SOLLER: Page 4 of the handout has the
7 policy. And it's Point 1 that you're talking on.
8 Makes a contribution to the claimed affect. But
9 contribution isn't specifically defined.

10 DR. RIGGS: Does the benefit have to be
11 above the benefit of one product?

12 DR. KATZ: No, it doesn't. Unless of
13 course in, when you are designing the trial that's
14 what you're asking them to do. But the regs don't
15 specify it that way. They just specify that they have
16 to demonstrate a benefit. So that you have to be able
17 to show that each ingredient has a benefit.

18 CHAIRMAN GENCO: So Max's question about
19 the additive affect, it's not an additive or
20 synergistic affect.

21 DR. KATZ: No, it does not.

22 CHAIRMAN GENCO: It's a benefit as however

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1 defined as a benefit. I mean you can look at a
2 population and one agent may work on the young and
3 another on the older, but if you looked at the total
4 population, you may not see a difference in the two
5 together. Except inasmuch as you looked at
6 individuals, for example. I'm just trying to think of
7 what a benefit would be that isn't additive or
8 synergistic.

9 Working on different populations or
10 different times in the life span. Or different stages
11 of disease.

12 DR. KATZ: It could probably, I don't
13 think it's ever been really defined that way. But
14 it's basically been defined that, again, for an OTC
15 that there has to be some rationale for putting the two
16 together. And that you have to demonstrate that both
17 of them together would have a benefit.

18 Unfortunately, I think this where it
19 always gets confusing with the combination policy
20 because the regs don't specify that you need to have
21 a synergistic benefit.

22 CHAIRMAN GENCO: Okay.

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1 DR. KATZ: You just need to have a
2 demonstrated benefit.

3 CHAIRMAN GENCO: Okay. So the company has
4 to be able to convincingly argue that there is a
5 benefit and define what that benefit is and show it in
6 a clinical study, whatever that benefit is.

7 DR. KATZ: That's correct.

8 CHAIRMAN GENCO: And it could either be a
9 numerical, synergistic or additive affect.

10 DR. KATZ: That's correct. And there has
11 to be a rationale for combining them.

12 CHAIRMAN GENCO: Okay. A rationale and a
13 clinical trial?

14 DR. KATZ: That's right. Well actually
15 there has to be a rationale because otherwise why
16 would you combine them.

17 CHAIRMAN GENCO: Right.

18 DR. KATZ: But there, so that the two
19 would go sort of hand-in-hand.

20 CHAIRMAN GENCO: Okay, fine. That's
21 helpful. Yes.

22 MR. HUTT: Bob, I think it, rather than,

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1 pardon me, talking about each having a benefit, it's
2 each has to make a contribution to the claimed effect.
3 Let's go back to one that Bill Soller used yesterday,
4 the antacid monograph. All that is required is that
5 each one of the combination of antacid ingredients
6 contributes significantly to the antacid effect.

7 There's no requirement of added benefit,
8 greater synergistic or any other type of reaction
9 among them. Frequently there has been more than one
10 active ingredient from the same pharmacological class
11 we're talking about, not different pharmacologic
12 classes, in order to reduce exposure to individual
13 ingredients. And that isn't a "benefit" in the
14 classic sense of effectiveness. But there has never
15 been a requirement that you show that two are better
16 than one.

17 DR. KATZ: I think we're having a semantic
18 argument versus what the terminology, contribution
19 versus benefit. Because from the Agency's perspective
20 we, what you're describing as a contribution we look
21 at as under the terminology of benefit. And we are
22 saying the same thing, we're just using a different

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1 word and it's a semantic difference.

2 Because basically what I was saying was
3 the same thing you were except I used the word benefit
4 and you used the word contribution. And that's
5 actually the way that it's interpreted is that we're
6 not asking for a synergistic benefit, but we are
7 asking for a benefit, which is the word that you are
8 using as a contribution.

9 MR. HUTT: In other words, Linda, to go
10 back to the antacid, the benefit is it acts like an
11 antacid?

12 DR. KATZ: That's correct.

13 CHAIRMAN GENCO: So to paraphrase or so
14 that we understand what you've said, if one agent used
15 at effective concentration has a side effect, if it's
16 used at half the concentration and another agent is
17 used to supplement and you get the same effect on the
18 gingivitis but you reduce the side effect by reducing
19 one agent, then you have a benefit.

20 MR. HUTT: Well --

21 CHAIRMAN GENCO: Or, or with --

22 MR. HUTT: You have a contribution.

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1 CHAIRMAN GENCO: You have a contribution,
2 right.

3 MR. HUTT: Each one --

4 CHAIRMAN GENCO: It's a beneficial
5 contribution.

6 MR. HUTT: -- is an effective agent.

7 CHAIRMAN GENCO: I think I, I think, is
8 that clear? In other words, you can combine two to
9 reduce the side effect of one that would be, have a
10 side effect at its full concentration, you can halve
11 it --

12 DR. KATZ: That's correct, but you --

13 CHAIRMAN GENCO: Okay.

14 DR. KATZ: -- but you don't necessarily
15 have to do that either.

16 CHAIRMAN GENCO: Okay.

17 DR. KATZ: Because there may be some
18 circumstances where you will put them in at their, the
19 same dose that they might be used singly and that
20 whatever --

21 CHAIRMAN GENCO: Okay.

22 DR. KATZ: -- for whatever desired

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1 rational effect that you want, that there is deemed to
2 be a benefit from combining the two.

3 MR. HUTT: I think the critical thing is
4 there doesn't have to be, and I think Linda and I are
5 saying the same thing, an additional benefit.

6 CHAIRMAN GENCO: Additional, okay.

7 MR. HUTT: Just, it has to be "effective".

8 CHAIRMAN GENCO: Okay.

9 DR. RIGGS: I need a clarification.

10 CHAIRMAN GENCO: Surely.

11 DR. RIGGS: The, let's just hypothetically
12 say Listerine gives you 30 percent reduction in
13 gingivitis and you add CPC and they now each can give
14 15 percent toward that reduction to equal that 30
15 percent reduction? Is that, so it's exactly the same
16 reduction.

17 CHAIRMAN GENCO: But there's a benefit
18 that you can use less alcohol or something like that.

19 DR. KATZ: There would have to be some
20 benefit for doing it.

21 CHAIRMAN GENCO: Right.

22 DR. RIGGS: Now then how does that, the

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1 second line on Page 4, the second bullet, when
2 combining the active ingredients does not decrease the
3 effectiveness. Well it did. It --

4 DR. KATZ: However, it may not have.
5 Because what you may have done is that there may be
6 something else that you would be able to reduce as a
7 result of combining the two ingredients. So that
8 you've not lost effectiveness and that the end result
9 is still the same. So the product may still be as --

10 DR. RIGGS: Right, the end result is still
11 30 percent reduction, but --

12 DR. KATZ: So that your end point, which
13 was whatever your reduction wanted to be is still the
14 same so that the product may be viewed as being
15 effective.

16 DR. RIGGS: Will that decrease the
17 effectiveness of any of the individual active
18 ingredients.

19 DR. KATZ: Right, but there would have to
20 be some rationale for doing it. Now if the rationale
21 for doing it was to reduce something else that may
22 have gone into the component, let's say alcohol. So

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1 that by combining the two, you could then reduce the
2 alcohol by half. That might be deemed a significant
3 enough benefit to allow the combination to occur.
4 However, if everything else remains the same, I'm not
5 sure whether that combination would be able to fly
6 unless there is some other reason or rationale for
7 having them.

8 CHAIRMAN GENCO: So, what is the process
9 then? Let's say that after we're finished, a company
10 comes up with some combination of these, two of these
11 three category one agents. They would have to present
12 to the FDA the rationale and the studies?

13 DR. KATZ: No. If these, it would depend.
14 If these are allowable combinations, then they would
15 not. They would just again have to show to the FDA
16 that they've combined them in a way that the FDA has
17 allowed and then label it accordingly. However, if
18 there's some deviation and that these are not
19 allowable combinations --

20 CHAIRMAN GENCO: Okay.

21 DR. KATZ: -- then they would have to go
22 through and do the clinical trials to show that they

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1 are effective.

2 CHAIRMAN GENCO: All right, so right now
3 we have no basis to say anything other than
4 theoretically they may be combined because nobody has
5 combined them. I mean so this panel can't really
6 judge whether a combination would be effective.

7 DR. KATZ: That's correct. Unless of
8 course you feel that from the information that has
9 been presented to you and the rationales that you can
10 think of as to why these products might, ingredients
11 might be combined, that if there is a rationale and
12 you can think of a good reason to do it, then this
13 would be the time to let us know --

14 CHAIRMAN GENCO: Okay.

15 DR. KATZ: -- that this seems to be
16 something that we would want to see or we would not
17 want to see occur.

18 CHAIRMAN GENCO: Okay. Let's get, let's
19 answer that question. We have comments first.

20 MR. HUTT: I there's still some confusion.
21 And let us go back to the antacid example because it
22 is a very clear policy that's now been established for

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1 20 years. You can use three antacid ingredients,
2 perhaps even four, in an individual product. You're
3 not required to show any "benefit" other than that
4 each makes a contribution to the claimed antacid
5 effect.

6 You do not have to show a rationale as to
7 why you're including them in there. Each one is
8 effective. And that is the only thing you must show.
9 You don't have to show greater safety, greater
10 effectiveness. Sheila, in answer to your question,
11 obviously if you will just take two, if you put two,
12 each one is in at a lower level and each one makes its
13 own effectiveness. If you, three, you put them in at
14 still a lower level, what the provision in the
15 regulation refers to is that one doesn't block the
16 action of the other.

17 That was the only concern of why that
18 regulation was written the way it was. You didn't
19 want to add one that literally prevented the other
20 from being effective. But there was no and is no
21 requirement that there be a, and some benefit
22 rationale for having two rather than one. That was

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1 never a requirement, and to my knowledge, FDA has
2 never said so to this day.

3 DR. KATZ: That is not a requirement. But
4 for the purposes of this discussion it would be. In
5 the sense of that if there's no rationale for doing it
6 now, then one may not want to allow those
7 combinations. But once the decision has been made,
8 you're correct. That if the decision is made to allow
9 two from the same category, then you are right at
10 beyond that, the rationale isn't needed. But for this
11 discussion, I think that people need, the panel needs
12 to entertain if there's a rationale or a basis for
13 combining those products or ingredients.

14 MR. HUTT: Well, I'm not sure in the --
15 this may be a lot about nothing, because I'm not sure
16 that any, at least I haven't seen and perhaps people
17 in the audience will correct me, anyone requesting the
18 opportunity for a combination. But to go back to the
19 antacids. At the time of that monograph and I could
20 name other monographs as well, the sole question was
21 it a manufacturer wants to put in two rather than one,
22 that is enough benefit. There was no other

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1 requirement of any kind.

2 CHAIRMAN GENCO: I think you're right. We
3 clearly don't have any basis, scientific basis,
4 experimental basis for the combinations. They haven't
5 been tested, period. And I think what Linda is saying
6 is, she's really stretching us while we're here, is
7 there even a rationale? And on the basis of a real
8 strong rationale, would this committee say yes, you
9 know, it's reasonable that you combine one with three.
10 And I think that's what we're being asked. And I just
11 wonder if that's the case. Max and then Bill.

12 DR. LISTGARTEN: I just, the one thing
13 that puzzles me a little bit is that if someone
14 decides to make some eight ingredients they just have
15 to argue for rationale. But don't they have to
16 demonstrate the middle bullet that there is no
17 decrease in the safety or effectiveness of any of the
18 individual active ingredients.

19 They have, it hasn't been done so we don't
20 know. So if somebody all of a sudden comes along and
21 says, I want to do it, it behooves someone to show
22 that there is no decrease in the activity of one of

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1 the ingredients.

2 MR. HUTT: Well again, Max, there has to
3 be if you're adding two antacids, obviously the total
4 neutralizing capacity of the final product remains the
5 same, but the activity of each one, because it's in at
6 a lower level --

7 DR. LISTGARTEN: I think it works very
8 nice for antacids, but let's take the anti-plaque
9 agents. We need a fixed oil combination to have
10 activity. You need all of these in a gold package.

11 MR. HUTT: Correct.

12 DR. LISTGARTEN: Okay, I'll buy that. Now
13 let's say I'm going to add fluoride to this. Now I
14 don't know what fluoride is going to do to this.
15 Maybe it will do nothing. Maybe it will totally
16 neutralize the activity of the four oils? I don't
17 know that.

18 MR. HUTT: Well clearly, that's why the
19 provision is in the regulation that prevents that.
20 That is the one thing that is crystal clear.

21 DR. LISTGARTEN: But who has to
22 demonstrate the fact that --

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1 MR. HUTT: The manufacturer.

2 MR. HUTT: So there is, there is an
3 obligation on the part of someone who wants to mix
4 ingredients to demonstrate that there is no
5 interference.

6 MR. HUTT: Yes, correct.

7 DR. SOLLER: Dr. Genco. Could I make a
8 comment.

9 DR. LISTGARTEN: That wasn't very clear.

10 CHAIRMAN GENCO: Bill and then I'm going
11 to go right back to the panel, because I think we can
12 resolve with fairly easily.

13 DR. SOLLER: That's what I'm trying to
14 convey here and offer perhaps some clarity. I had
15 mentioned that it was principally a theoretical
16 discussion. You haven't been presented with that.

17 CHAIRMAN GENCO: Right.

18 DR. SOLLER: I think it would be helpful,
19 in the interest of R&D, if we had the kind of
20 resolution to this discussion that didn't foreclose
21 that possibility. And as long as we see that the
22 manufacturer, if in this rule making was to petition

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1 for an amendment, that there was a basis within this
2 panel to say that as long as this is met, that it
3 would seem to be an appropriate way to go.

4 CHAIRMAN GENCO: Okay. So at the present
5 time, does anybody on the panel think there is a
6 rationale for combining any one, excuse me, two or
7 more of the category one anti-plaque, anti-gingivitis
8 agents? In other words, it's our rationale for
9 combining stannous fluoride, Cepacol and/or the fixed
10 Listerine. Is there a rationale?

11 DR. LISTGARTEN: I think there's a
12 rationale. I mean we're dealing with different
13 conditions. If we can have a product that hates
14 caries and gingivitis and it helps to desensitize
15 teeth in a person who happens to have sensitive teeth,
16 I don't, probably I don't see any particular problem.
17 I mean, is that what you're asking for us to give you
18 our opinion?

19 CHAIRMAN GENCO: That's right. So this
20 would be a direct --

21 DR. LISTGARTEN: I don't have a problem
22 with it.

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1 CHAIRMAN GENCO: We can't say much more
2 than that. There's a theoretical rationale. I mean
3 there's no scientific basis, though, for doing it.

4 DR. BOWEN: There might be a biochemical
5 basis for not doing it.

6 DR. LISTGARTEN: Well, this was the nature
7 of my earlier question. There might be some, a
8 biochemical basis for not doing it.

9 CHAIRMAN GENCO: So it's not a clear cut
10 example as the antacids. It probably doesn't matter
11 which of the antacids you mix as long as they
12 neutralize acid. But we don't have such a simple
13 situation here.

14 DR. LISTGARTEN: But I don't have, I don't
15 have a problem with a product that has shown to be
16 effective against gingivitis and reduction of caries
17 and at the same time desensitize teeth. I think it's
18 a wonderful thing. Why not?

19 CHAIRMAN GENCO: But it has to be tested.

20 DR. LISTGARTEN: But it has to be tested
21 so that in fact it does all these things and --

22 CHAIRMAN GENCO: So the theoretical

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1 rationale but there's some reservations, require
2 testing. Bill and then Lew.

3 DR. BOWEN: I think there's no problem
4 with the concept. We might have a problems with
5 specific details. I have a question also for the FDA
6 staff. What's the status of tooth desensitizing
7 agents?

8 DR. KATZ: There's one ingredient that's
9 allowed and that's, it's in a tentative, final
10 monograph, potassium nitrate as a tooth desensitizer.

11 DR. BOWEN: And I have one additional
12 question. What if you combine a product or an agent
13 that has a cosmetic effect, namely anti-calculus?
14 Presumably a fluoride toothpaste, for example, would
15 have to be retested again in the animal model and the
16 fluoride uptake.

17 DR. KATZ: Yes, that's right.

18 CHAIRMAN GENCO: Okay how, Lew and then
19 let's come to a resolution of this combinations of
20 anti-gingivitis.

21 MR. CANCRO: I want to make two points.
22 The first is when you jump between pharmacological

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1 classes, in other words go from one category to
2 another, such as fluoride and anti-gingivitis, the
3 obligation is to meet the standards of each, of each
4 of the categories. So for fluoride, you must now go
5 through all the performance tests and additionally in
6 this category, the manufacturer also has to go through
7 additionally the tests that you're proposing.

8 So that's independent of the, of this
9 issue of combining materials in the same
10 pharmacological class. And here, since nobody has
11 given you a combination, the issue on the table is the
12 principle of whether or not this could be rationale.
13 And it could be rationale. Less stain, better taste,
14 less side effects, more facility in formulating. So
15 potentially, one could rationalize that there are
16 many, many benefits to combining this. But nobody has
17 put forth to this panel a combination at this time.
18 So it's the principle of --

19 CHAIRMAN GENCO: So the problem is that
20 each of these is a different pharmacologic class.

21 MR. CANCRO: Well, you --

22 CHAIRMAN GENCO: And it's not like the

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1 fluorides where you have three possible fluorides that
2 have anti-caries and you can mix and match those
3 possibly. We don't have a simple situation like that.

4 MR. CANCRO: Yeah, I'm --

5 CHAIRMAN GENCO: So it's complicated by
6 the fact that they're in three different
7 pharmacological classes. So that the rationale is
8 less clear.

9 DR. RIGGS: On Page 15, we've signed off
10 on the first three. It's this one we're discussing.

11 CHAIRMAN GENCO: Right, no, we're talking
12 about the combinations of anti-plaque --

13 DR. RIGGS: Right. And Linda, can we make
14 a recommendation that the rationale be if you combine
15 two within the, from this monograph, they have to have
16 more benefit than --

17 DR. KATZ: No. Basically what the
18 recommendation would be, would be to say that a
19 combination, that you would allow combinations from
20 the anti-gingivitis, anti-plaque. Combinations of
21 ingredients, category one ingredients. That you can't
22 specify that it has to be better than --

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1 DR. RIGGS: Okay.

2 DR. KATZ: That it just has to, basically,
3 if you're allowing the combinations to exist, they
4 would have to be, the combinations would basically
5 have to demonstrate that they, when you combine the
6 two together, that it fits into what the combination
7 policy says. Such that there's a benefit, but you
8 can't specify what kind of benefit you want to see.

9 CHAIRMAN GENCO: Okay. So does the panel
10 think we can just allow that? Is there a rationale to
11 allow that or not? To allow combinations of anti-
12 gingivitis agents, simply to allow them?

13 (No response.)

14 CHAIRMAN GENCO: No?

15 DR. BOWEN: Before I say yes or no I have
16 another question for the staff of the FDA. What are
17 the obligations of toxicity on combinations?

18 DR. KATZ: Again, through part of the
19 testing, it's the same as one would look at for
20 anything to make sure that when you're combining
21 things that there is no significant toxicity that
22 would preclude allowing it to be available.

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1 DR. BOWEN: So the submitters have to go
2 through a whole battery of new toxicity studies?

3 DR. KATZ: Well, it would, basically,
4 there would be a standard that they would have to go
5 through. And in that one would look at toxicity.

6 CHAIRMAN GENCO: So there's no basis,
7 there appears to be no basis to allow the
8 combinations, as there was in the case of the
9 fluorides or as there was in the case of the antacids.
10 Combinations of anti-gingivitis agents.

11 DR. LISTGARTEN: I'm not sure how you came
12 up with the fact that there is no basis.

13 CHAIRMAN GENCO: I'm just, I'm putting a
14 position on the table.

15 DR. LISTGARTEN: I think if you can, if
16 you can kill two birds with one stone --

17 CHAIRMAN GENCO: That's a rationale. I'm
18 saying --

19 DR. LISTGARTEN: That's a rationale.

20 CHAIRMAN GENCO: I think what they need to
21 know is do we think that now there is rationale
22 evidence --

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1 DR. LISTGARTEN: There is no evidence. If
2 there is jus -- the only thing we can discuss here,
3 since we have absolutely no information about
4 combinations, is the rationale.

5 CHAIRMAN GENCO: Okay.

6 DR. LISTGARTEN: There is a rationale.

7 CHAIRMAN GENCO: Okay. All right, would
8 you make a motion to that effect?

9 DR. LISTGARTEN: Sure, I'll make a motion.

10 Whoops.

11 MR. HUTT: Bob, can I just clarify one
12 thing.

13 CHAIRMAN GENCO: Sure.

14 MR. HUTT: Because I have the feeling,
15 listening out here, that different people around the
16 table are talking about quite different things. And
17 I think there are two different types of combinations.
18 One type of combination is where you take more than
19 one active ingredient from the same class, i.e., only
20 a combination of anti-gingivitis agents. A second
21 kind of combination is where you take active
22 ingredients from different types, different

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1 pharmacological categories, e.g., an anti-cavity and
2 an anti-gingivitis.

3 CHAIRMAN GENCO: I don't think we're
4 talking about that at all.

5 MR. HUTT: Well, some people were and some
6 weren't. And Max was talking about the second
7 category and you were talking about the first.

8 CHAIRMAN GENCO: No.

9 MR. HUTT: All right.

10 CHAIRMAN GENCO: I think we're all talking
11 about combinations of anti-gingivitis agents. I
12 haven't heard anybody say anything --

13 DR. LISTGARTEN: And I was talking about
14 the other kind too.

15 CHAIRMAN GENCO: Okay. Now --

16 DR. LISTGARTEN: I wanted to reduce caries
17 and reduce sensitivity --

18 CHAIRMAN GENCO: Within the anti-
19 gingivitis, Lew brought up the point there are
20 different pharmacologic types. There are oils,
21 there's stannous fluoride and there's CPC. These are
22 different. They all have the same effect of anti-

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1 gingivitis, but maybe different mechanisms.

2 MR. CANCRO: No, by pharmacologic class,
3 it would be anti-gingivitis and anti-plaque.

4 CHAIRMAN GENCO: Right.

5 MR. CANCRO: The materials --

6 CHAIRMAN GENCO: Oh, all right.

7 MR. CANCRO: -- have different basis of
8 chemical activity.

9 CHAIRMAN GENCO: Okay.

10 MR. CANCRO: But it's all the one class of
11 material.

12 CHAIRMAN GENCO: Okay, I used the wrong
13 term. I apologize. But they're different classes, I
14 mean stannous fluoride is a very different chemical
15 class than Listerine, etcetera.

16 MR. CANCRO: Yes.

17 CHAIRMAN GENCO: So it's not like
18 different antacids, sodium bicarbonate, magnesium
19 carbonate, whatever, which could very easily be
20 thought to be combined. We have groups that are not
21 easily thought to be combined brought up. There may
22 be chemical interactions. But there is a rationale

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1 for combining them. In other words, do you want to
2 hear from us that, sure, it looks like you can easily
3 combine these and there will be no problem.

4 Like that antacids or like the fluorides.
5 Or there is a rationale, but it really is going to
6 require quite a bit of testing for safety efficacy
7 before this can be done.

8 MR. CANCRO: Bob, you already have, you
9 already have in place the safety net that they can't
10 interact because you're going to test for the chemical
11 integrity of the material and the biological activity
12 of the material. So that's, that's in place. If two
13 materials from the same class interact, they'd fail
14 those tests. So that's an aside issue. They, you
15 couldn't put out a combination that had a chemical
16 interaction. I mean it would fail the test.

17 CHAIRMAN GENCO: Yeah, I think we've also
18 discussed that. Any of these combinations would have
19 to be tested in the final formulation for safety and
20 efficacy. But we're not saying, I don't think anybody
21 here says, that we think that that's not going to be
22 a problem if you combine these two.

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1 DR. LISTGARTEN: Nobody is saying that.

2 CHAIRMAN GENCO: Nobody is saying that.

3 So that's the message. Maybe we can go on to the next
4 topic. There are none of these combinations that we
5 think are going to be completely free of problems in
6 the performance testing.

7 DR. LISTGARTEN: But that's not, that's
8 really not our business. Our business is to
9 determine, it seems, whether in principle, whether in
10 principle we can allow mixing of active ingredients,
11 let's say just to fight gingivitis. If in principle
12 we can allow the mixing of ingredients that have
13 different pharmacological effects so we can combine
14 anti-gingivitis with an anti-caries agent.

15 And it goes without saying or it's
16 understood that for any of these combinations, whether
17 it's just for gingivitis or whether it's to fight
18 caries and gingivitis, that for any of these
19 combinations, the manufacturer is going to be held
20 responsible to show that the final combination is
21 stable, is safe, is effective and that's none of our
22 business, because at the moment we don't have any data

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1 to even discuss it. But it's assumed that somebody is
2 going to have to take that responsibility.

3 CHAIRMAN GENCO: Bill, do you want to make
4 a comment?

5 DR. BOWEN: Just very briefly. I agree
6 with Max, we're not discussing the agents that we've
7 been reviewing. We're discussing concepts, as I
8 understand it. And as I understand it also that the
9 obligation remains with the submitter to show that the
10 combination they submit is safe and effective.

11 CHAIRMAN GENCO: Okay, fine. Maybe that
12 ends it then. Is there further discussion?

13 MR. SAXE: Well, I was just going to say
14 that we do have three class one agents at this point.
15 And I think it could be expressed as the feeling of
16 this panel, of this committee, that there is no
17 indication you could just say, yes, that's fine, any
18 combination of these certainly would be acceptable.
19 Because there is hesitancy since these three class
20 one, category one agents are vastly different in their
21 composition.

22 So I think the concept is fine, sure. But

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1 as far as we have information to date, there's no
2 blanket approval of the existing category one.

3 MR. CANCRO: But Bob, there is the
4 potential, the potential for all of these other
5 category three agents to ultimately demonstrate
6 effectiveness, meet monograph conditions and hence,
7 within that repertoire of 19 ingredients, there may
8 well be the ability to combine them and get a benefit.
9 So again, it's the concept and nobody's dealing with
10 specifics here.

11 CHAIRMAN GENCO: Okay, so that, that I
12 think sums it up nicely. The concept of combination
13 is certainly reasonable and rational, theoretically.
14 But in practice they would have to be tested very
15 rigorously because there's no, we don't have practical
16 certitude that any of these combinations would
17 reasonably meet all the safety and efficacy testing as
18 may be the case for the antacids. Okay, yes.

19 DR. WU: I have a question for Linda. I
20 remember I read somewhere in the combination policy
21 that it says two or more agents from the same
22 therapeutic groups with same mode of action should not

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1 be combined. So in our case, we may be able to
2 combine the three different agents from the category
3 one in the product?

4 DR. KATZ : You may be able to, that's
5 correct.

6 CHAIRMAN GENCO: Okay, let's go on to the
7 other rational combinations. I think Bill has already
8 brought one. That is with the anti-calculus agent.
9 Bill, do you want to summarize that or make some sort
10 of a comment with --

11 DR. BOWEN : No, basically I wanted
12 clarification on when you add a substance that is
13 mainly in there for cosmetic reasons, what are the
14 obligations on the effect on the product? And that
15 was answered to my satisfaction in that the
16 combination has to be, go through same testing as the
17 original agent.

18 CHAIRMAN GENCO: Okay, so any other
19 comments about other rational combinations?

20 (No response.)

21 CHAIRMAN GENCO: The feeling is that
22 they' re theoretically possible, may be quite

1 desirable, show benefit, complement each other. But
2 of course the performance testing of the final
3 formulation would have to be carried out with respect
4 to efficacy and safety.

5 DR. RIGGS: Do you keep --

6 CHAIRMAN GENCO: There's no, yes.

7 DR. RIGGS: I'm sorry. Do you keep, when
8 you combine it with a cosmetic ingredient, do you keep
9 that totally out of the indications and on the
10 labeling? I mean I wouldn't want to give false
11 legitimization to the cosmetic thing by inserting them
12 into the indication.

13 DR. KATZ : It's not part of the
14 indication. It is separate from that. If you look at
15 some of the products that may have both drug effect
16 and cosmetic effect, that even in terms of on the
17 packaging they are kept separate so that the two don't
18 get intermingled to create confusion with consumers.

19 CHAIRMAN GENCO: Okay, Peter.

20 MR. HUTT: Bob, I wanted to again clarify
21 your most recent question. I assume that you have not
22 yet begun to take up the question of combinations

1 among different classes. For example, anti-gingivitis
2 and anti-cavity.

3 CHAIRMAN GENCO: We did that first.

4 MR. HUTT: Oh, that's all done. Those are
5 all done. All you are talking about here was the
6 combinations of the three --

7 CHAIRMAN GENCO: Right.

8 MR. HUTT: -- category one ingredients.

9 CHAIRMAN GENCO: Peter, pick up Page 15
10 and we're taking Bill Soller's outline.

11 MR. HUTT: All right.

12 CHAIRMAN GENCO: We've already done that
13 and we're on the fourth, which is combinations of
14 anti-plaque, anti-gingivitis within that category.

15 MR. HUTT: Thank you.

16 CHAIRMAN GENCO: And now we're talking
17 about other rational combinations besides the anti-
18 caries, anti-gingivitis, anti-plaque. Anti-calculus
19 for example. And so we've said there is a rationale
20 for doing that, of course, subject to final
21 performance testing, final formulation performance
22 testing.

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1 MR. HUTT: Well, let me simply reiterate
2 what I hope has, is understood. The way that the FDA
3 has always handled the combination of any aspect of a
4 cosmetic --

5 CHAIRMAN GENCO: Right.

6 MR. HUTT: -- component is to exclude that
7 completely from this over-the-counter drug review
8 because this has never been a cosmetic review, it is
9 solely an over-the-counter drug review.

10 CHAIRMAN GENCO: Okay, so Sheila's
11 question was --

12 MR. HUTT: But, again Bill, please
13 understand, the final formulation must meet the
14 requirements. And must be tested in that way.

15 DR. LISTGARTEN: I think one could have,
16 I have a slight concern with the, I have a slight
17 concern between this division between the cosmetics
18 and the drug effect. Let's say you want to have an
19 anti-calculus agent and you want to have a
20 desensitizing agent in the same, in the same
21 combination. You may run into a problem because the
22 two are very likely to work against one another.

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1 MR. HUTT: Well, there are two
2 requirements --

3 DR. LISTGARTEN: If we don't consider, if
4 we don't consider them in the same, in the same
5 breath, you know, how do we deal with this potential
6 conflict.

7 MR. HUTT: Well, there are two
8 requirements that would prevent that. The first is
9 the combination policy clearly states that you can't
10 add an ingredient that would take away from the
11 effectiveness of the other.

12 DR. LISTGARTEN: Even if it's a cosmetic?

13 MR. HUTT: That's right.

14 DR. LISTGARTEN: Okay.

15 MR. HUTT: And the second is that any
16 final performance testing must be conducted on the
17 final formulation. And if, for example, you added
18 something that would result in the product flunking
19 the final formulation testing, than automatically the
20 product is illegal. It can't be marketed.

21 CHAIRMAN GENCO: So it's all final
22 formulation performance testing that takes care of any

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1 cosmetic that may be added. Chris.

2 DR. WU: I would say if there's a product
3 that comes, that has a combination of stannous
4 fluoride and oil so in the final performance testing
5 does this product have to go through both, let's say
6 the Listerine test, which is the anti-gingivitis test
7 and have to go through the PGRN and the whole bit.

8 CHAIRMAN GENCO: Right. The final
9 performance testing for all the, all the drug claims.

10 DR. WU: Right.

11 CHAIRMAN GENCO: But since they have the
12 cosmetic, which may affect the drug claim, of course
13 you're testing the effect of the cosmetic on the drug.
14 Okay, can we proceed now to the statement of identity
15 for, and let's go back on Page 15 of the anti-
16 gingivitis, anti-plaque, anti-caries combination. The
17 suggestion Bill Soller made is that the statement of
18 identity by anti-cavity, anti-gingivitis (toothpaste
19 or dentifrice), anti-cavity anti-gingivitis
20 (toothpaste or dentifrice) or mouth rinse, whatever.
21 Is that reasonable?

22 DR. RIGGS: What was our statement of

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1 identity for, did we end up with for the anti-
2 gingivitis, anti-plaque? It was a little, little bit
3 longer than that wasn't it? Rhonda, what did we
4 decide yesterday? It seems quite a bit shorter than
5 our statement of identity for just --

6 CHAIRMAN GENCO: Yeah, for, for, no, the
7 indication was longer. The stannous fluoride, for
8 example, was the anti-gingivitis, that's it. The
9 statement of identity is anti-gingivitis.

10 DR. RIGGS: Okay.

11 CHAIRMAN GENCO: You're thinking about the
12 indications.

13 DR. RIGGS: Okay.

14 CHAIRMAN GENCO: That was the longer.

15 DR. RIGGS: Okay.

16 CHAIRMAN GENCO: And we don't have to get
17 into that now.

18 DR. RIGGS: Okay.

19 CHAIRMAN GENCO: We only have to deal with
20 statement of identity for these combinations. For
21 example, Colgate Total, anti-cavity, fluoride and
22 anti-gingivitis toothpaste. That's the statement of

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1 identity. So we're saying that statement of identify
2 for a product like that would be anti-cavity, anti-
3 gingivitis, dentifrice or toothpaste. Now they've
4 added the fluoride to it, but I guess that's probably
5 just wordsmithing.

6 MR. HUTT: It's permitted in the
7 monograph.

8 CHAIRMAN GENCO: Okay, good. Okay, so the
9 monograph for the anti-cavity allows the fluoride,
10 okay.

11 DR. RIGGS: Should we put that parens in
12 also?

13 CHAIRMAN GENCO: I think we should. In
14 other words, we should be instructed by that
15 monograph. I mean we can simply tell that that,
16 obviously that's what you're going to do. The
17 addition we're making is space anti-gingivitis. Any
18 comments, any problem with that?

19 DR. LISTGARTEN: I just had a question or
20 clarification.

21 CHAIRMAN GENCO: Sure.

22 DR. LISTGARTEN: Which, what are we

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1 working on?

2 CHAIRMAN GENCO: Okay, Bill gave anti-
3 plaque, anti-gingivitis products, OTC combination
4 policies, it's Page 15.

5 DR. LISTGARTEN: Okay, we're still on the
6 same page?

7 CHAIRMAN GENCO: Yeah. Would it help to
8 put that slide up. Maybe, Bill, would you mind, it's
9 your summary slide.

10 DR. SOLLER: Just by way of, just by way
11 of referring to what we just talked about, the
12 statement of identity from a different monograph would
13 appear either before or after the statement of
14 identity that you came up with. And I didn't redo the
15 slide from your discussion the other day, but that
16 would be anti-gingivitis space anti-plaque. And I
17 think we went through a discussion, Bill, whether it
18 would be a slash or an and. And my recommendation
19 would leave that up to the manufacturer. It's
20 inconsequential.

21 But to at least separate it would probably
22 be preferable. So anti-gingivitis, anti plaque or

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1 anti-gingivitis including all the dosage forms and now
2 thinking about, are you going to put anti-cavity here
3 and for sensitive teeth down here.

4 CHAIRMAN GENCO: Would you put the
5 previous one up? Your combination -- that's it.

6 DR. SOLLER: Yeah.

7 CHAIRMAN GENCO: Let's look at that first
8 combination, anti-cavity, anti-gingivitis toothpaste.
9 That's the one we first discussed. And I think we
10 agreed that that would be anti-cavity, the statement
11 of identity would be anti-cavity space anti-gingivitis
12 (toothpaste, dentifrice, mouth rinse). Okay, any
13 comments? Let's go on to the middle one.

14 DR. LISTGARTEN: Yeah. I have a comment.

15 CHAIRMAN GENCO: Yes.

16 DR. LISTGARTEN: There a whole bunch of
17 those formulations, toothpastes, sprays, gels, what
18 have you. Suppose I have an anti-cavity, anti-
19 gingivitis product and it's proved to be effective as
20 toothpaste and I want to sell it as a spray.

21 CHAIRMAN GENCO: As a spray?

22 DR. LISTGARTEN: As a spray. Or as any,

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1 yeah.

2 DR. RIGGS: Then we go back to the --

3 CHAIRMAN GENCO: That's a different
4 formulation.

5 DR. LISTGARTEN: When I'm dealing with a
6 different formulation.

7 DR. KATZ: Right, and actually that's
8 going to be part of the next discussion.

9 CHAIRMAN GENCO: Right.

10 DR. KATZ: When we go back to address the
11 formulation issues. But depending upon what you
12 decide, since we never really came to grips with
13 Wednesday's discussion about formulation, final
14 formulations themselves, is if you decide in the
15 monograph that you want to specify the formulation,
16 then if you specify that it can be a toothpaste or a
17 mouth rinse or what have you, then the spray itself
18 would need to come in through an NDA as a new drug to
19 be assessed.

20 It would not fall under the monograph. Or
21 one could petition the monograph to see if it could
22 come under the monograph. That would be the two

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1 avenues. But that it would not be automatic. And
2 that will be a part of the discussion that we come
3 back to later this morning.

4 CHAIRMAN GENCO: Should we talk only about
5 the products that have been tested that we've been
6 presented with? Because if that's the case, then that
7 first statement, anti-cavity, anti-gingivitis would
8 only be a toothpaste.

9 DR. KATZ: At this point in time --

10 CHAIRMAN GENCO: Because the only anti-
11 gingivitis agent we've heard was toothpaste, strictly
12 anti-gingivitis.

13 DR. KATZ: You could it that way or you
14 can just leave it sort of at that part open. And then
15 we can fill in that part --

16 CHAIRMAN GENCO: It will be obvious.

17 DR. KATZ: -- of the blank after, right
18 after they get the rest --

19 CHAIRMAN GENCO: If these other
20 formulations are approved?

21 DR. KATZ: That's correct.

22 CHAIRMAN GENCO: So that the --

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1 DR. KATZ: But remember --

2 CHAIRMAN GENCO: -- toothpaste could be
3 dentifrice, mouth rinse or whatever formulation is
4 proven.

5 DR. KATZ: Right. But remember under the
6 anti-caries monograph that there are a different
7 variety of dosage forms.

8 CHAIRMAN GENCO: Okay, thank you. Let's
9 go to the next one. Anti-cavity, anti-plaque, anti-
10 gingivitis. Here we have added the other two agents
11 that have shown anti-plaque activity. And as I recall
12 we reversed the order. So that the statement of
13 identity for this group, the middle group would be
14 anti-cavity, anti-gingivitis, anti-plaque (dentifrice,
15 mouth rinse, toothpaste). Okay.

16 Now the fourth category would be anti-
17 cavity, anti-gingivitis, toothpaste, dentifrice, mouth
18 rinse for sensitive teeth.

19 DR. SOLLER: Bob, again I was using anti-
20 plaque, anti-gingivitis --

21 CHAIRMAN GENCO: Right.

22 DR. SOLLER: -- to be quotes.

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1 CHAIRMAN GENCO: So there is a possibility
2 there would be a fourth --

3 DR. SOLLER: Anti-cavity, anti-gingivitis,
4 anti-plaque toothpaste or dentifrice, whatever for
5 sensitive teeth.

6 CHAIRMAN GENCO: Okay. So any objection
7 to that?

8 (No response.)

9 CHAIRMAN GENCO: So the fourth one, Bill.

10 DR. BOWEN: Just a clarification. Anti-
11 plaque would not be ever substituted for anti-
12 gingivitis?

13 DR. SOLLER: Correct. Under what you have
14 recommended.

15 CHAIRMAN GENCO: So to make that clear,
16 what would not be allowed would be an anti-calculus or
17 an anti-plaque only statement of identity.

18 DR. RIGGS: In combination with anti-
19 cavity or sensitive teeth.

20 CHAIRMAN GENCO: In combination with these
21 others, right.

22 DR. RIGGS: Right.

1 CHAIRMAN GENCO: Well, in combination with
2 anti-cavity or tooth desensitizer.

3 MR. SAVITT: Well, not anti-calculus.
4 Calculus isn't an --

5 CHAIRMAN GENCO: Right. Just to make it
6 absolutely clear for the record. Okay, is everybody
7 pleased with that? Any comments?

8 (No response.)

9 CHAIRMAN GENCO: Good. Thank you very
10 much.

11 DR. RIGGS: But we, we also will allow
12 like fluoride.

13 CHAIRMAN GENCO: Be instructed by the
14 anti-carries monograph.

15 DR. SOLLER: You would be putting that in
16 per the anti-carries monograph, so remembering --

17 CHAIRMAN GENCO: Per the monograph.

18 DR. RIGGS: Yeah.

19 DR. SOLLER: -- that when you start
20 combining ingredients --

21 DR. RIGGS: Monographs.

22 DR. SOLLER: -- from one monograph to the

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1 other, you have to --

2 DR. RIGGS: Right, you have to --

3 CHAIRMAN GENCO: You have to be instructed
4 by the --

5 DR. SOLLER: -- be informed by the
6 statement of identity of that other product.

7 DR. RIGGS: Right. Is there anything in
8 brackets for the sensitive teeth? Just point of
9 information. It's not a final.

10 CHAIRMAN GENCO: It's a tentative
11 monograph.

12 DR. RIGGS: Okay.

13 CHAIRMAN GENCO: Okay. I think we've
14 covered the combination ingredients. Good.

15 MR. CANCRO: Bob, are you going to
16 formally vote on this or what happens? Are you just
17 proposing it or what's need?

18 CHAIRMAN GENCO: Are we going to vote on
19 this?

20 MR. SHERMAN: No I think, we have your
21 recommendations, I don't think we need to go around
22 and --

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1 MR. SAVITT: I think it was unanimous.

2 CHAIRMAN GENCO: It's pretty much
3 unanimous. I think --

4 MR. CANCRO: Okay, so the --

5 CHAIRMAN GENCO: -- for each of the items
6 I asked --

7 MR. CANCRO: No, but I -- from a
8 procedural point of view, I want to be sure that the
9 record reflects it's the unanimous recommendation of
10 this panel.

11 CHAIRMAN GENCO: Okay, does anybody object
12 to all of the things that we discussed with respect to
13 the combinations and the statement of identity? Is
14 there any objection, or is it unanimous? Okay, I see
15 all positive --

16 MR. SAXE: Clarify again under other
17 rational combination where the role of the anti-
18 calculus was coming in? You said that there could not
19 be --

20 CHAIRMAN GENCO: We said that, in the
21 statement of identity, we went on record to say that
22 anti-plaque alone, in the absence of anti-gingivitis

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1 or anti-calculus would not be appropriate in the
2 statement of identities for any of these combination
3 agents.

4 MR. SAXE: Anti-calculus would not be
5 included --

6 CHAIRMAN GENCO: Included at all, right.
7 Maybe that doesn't have to be said, but I think for
8 the record. Okay. So let's proceed now to the, to
9 finish up the performance standards, there were two
10 issues. One was the representative of microbiologic
11 listing for anti-gingivitis products. And Dr.
12 Listgarten has proposed a list of organisms for
13 invitro testing, culture testing, I would take that
14 from clinical islet, culture testing. And then
15 morphotype account for the clinical studies.

16 And I would take this as example and
17 representative, but not prescribed. Okay, so the
18 wording would be as part of performance testing, for
19 example in the invitro aspect of testing an anti-
20 gingivitis, anti-plaque agent or anti-gingivitis
21 alone, you would do, in the laboratory, invitro
22 testing of antimicrobial activity to this, to a

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1 representative set of bacteria, oral bacteria,
2 including Fusobacterium nucleatum, Porphyomonas
3 gingivalis, Prevotella intermedia, Bacteroides
4 forsythus, candida species and gram negative enteric
5 rods.

6 Again, this is a, for example. It is not
7 prescribed that these are the absolute only or all of
8 these have to be tested. Comments, questions? And I
9 can give you this list.

10 DR. LISTGARTEN: I just want to clarify
11 why the manufacturer would have to do this if we won't
12 allow them an anti-microbial claim? Because yesterday
13 we went around --

14 CHAIRMAN GENCO: Oh, it's very simple.

15 DR. LISTGARTEN: Okay.

16 CHAIRMAN GENCO: If somebody mixes the
17 four essential oils or makes a new prep of stannous
18 fluoride, they may inactive it chemically. One
19 measure of the lack of activity is that it kills these
20 bugs. Whether that's the mechanism or not is not the
21 issue. It's a measure of activity. It's a marker for
22 activity predictive of, but not definitely proving

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1 mechanism of anti-caries, anti-gingivitis effect.
2 That's the way I view it. It's a marker. It's a
3 convenient laboratory test to say that this
4 preparation is completely bugged up.

5 DR. LISTGARTEN: Okay, so you're basically
6 using this performance test --

7 CHAIRMAN GENCO: Right.

8 DR. LISTGARTEN: -- without having to go
9 through a clinical, is that what you're saying?

10 CHAIRMAN GENCO: No, no. Realize that
11 anybody who makes the formulation of the fixed oils
12 also has to do a two-week experimental gingivitis
13 study. So there's two things that they have to do.
14 One is the invitro laboratory anti-microbial testing
15 of the prep. And the other is the invitro, excuse me,
16 invivo human two-week inhibition of experimental
17 gingivitis.

18 Those two would say that this company can
19 now go to the FDA and say we have a product that's
20 essentially comparable to Listerine and we want to
21 sell it because we think that these two tests are
22 indicative of its effect in a six-month gold standard

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1 clinical trial. Not that these tests are necessarily,
2 get to the essence of mechanism. Only that they're
3 predictive of the clinical trial. Okay, that's for
4 the fixed combination. Mike.

5 DR. BARNETT: Yeah, but you know Max
6 raises this interesting point though. Because unless
7 there's the presumption that in fact these
8 formulations are killing these organisms, these very
9 same organisms invivo, then it really doesn't matter
10 which organisms you select. It could be the ones we
11 proposed. So, you know, in selecting these, I think
12 there is a presumption that these organisms are
13 pathogens or potential pathogens and that these
14 formulations, the expectation is that these
15 formulations are going to kill these organisms in
16 actual use.

17 And therefore that's one mechanism by
18 which they were acting. So there's --

19 CHAIRMAN GENCO: No, I don't follow the
20 therefore. I say, all the terms you used before were,
21 you know, it makes sense, provisional, presumptive,
22 that all, but to prove mechanism is a very different

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1 situation. You're not going to test soilmethano
2 bacteria. That doesn't, that's not even logical or
3 reasonable.

4 You are going to test the bugs that are
5 associated with gingivitis. That's logical or
6 reasonable, but it doesn't prove that that's a
7 mechanism. I think it's a very different situation.

8 DR. BARNETT: Well, I'm glad, Bob, we're
9 at a point where we agree perhaps 80 percent and what,
10 no, no, I'm not being facetious.

11 CHAIRMAN GENCO: These are for industry,
12 these are short cuts to the six-month clinical trial.

13 DR. BARNETT: No, no, but we're talking
14 about two different things. One is the performance
15 test.

16 CHAIRMAN GENCO: That's what we're talking
17 about. We're only talking about that.

18 DR. BARNETT: And, right. And what, the
19 only point I bring up is to follow up on Max's point
20 with respect to consistency with yesterday's
21 discussion. So what I would suggest is rather than
22 prolong this here, because that's not really the issue

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1 of the day, is that we come back and maybe discuss
2 this further next time.

3 CHAIRMAN GENCO: Oh, I think we need
4 probably a one-week conference to discuss mechanism.
5 That would be fascinating. And as a Scientist, I
6 would welcome that. What I think this morning, what
7 we're talking about is expedient, efficient,
8 predictive tests that companies can use and not go
9 broke.

10 DR. BARNETT: No, I understand.

11 CHAIRMAN GENCO: To show that a product is
12 comparable. That's all we're talking about. We're
13 talking about final --

14 DR. BARNETT: Yeah, but Bob, Bob, we're
15 talking about, I agree, that's what we're talking
16 about this morning. I only brought that up because
17 Max raised the issue and it had to do with the claims
18 discussion of yesterday and it sounds as through
19 perhaps that ought to be addressed further. And what
20 I'm suggesting is that we consider that at the next
21 meeting.

22 CHAIRMAN GENCO: Oh surely. Okay, shall

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1 we proceed now. We've discussed this invitro culture
2 test and Chris would also, handed in her homework too.
3 And she said that we should note in the protocol to
4 add that the starting inoculum size should be at least
5 at an ocular density of 1.0 at 650 nanometers. Is
6 that, did I read it right?

7 DR. LISTGARTEN: I don't think they may
8 work for all the organisms. Some maybe difficult to
9 grow and, for example, b-forsythus might best be
10 detected by aminofluorescence. So I wouldn't presume
11 on telling the manufacturers how to test for them.
12 They have to use an acceptable method of monitoring
13 and show that there is a significant reduction.

14 CHAIRMAN GENCO: Okay, so actually what
15 Max is suggesting is that this list be for invitro
16 testing and/or clinical testing. So it may make sense
17 not to include the b-forsythus in the cultural tests
18 because they are so difficult to grow. But to include
19 them in the second test, which is the, which is the
20 invivo.

21 Let's just talk about the invitro first.
22 So this is a suggested group of organisms. And for

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1 that suggested group --

2 DR. LISTGARTEN: I mean let's, you know,
3 let's not sort of regulate every last little thing.

4 CHAIRMAN GENCO: Okay.

5 DR. LISTGARTEN: Let's just say, for
6 example, you can do this. Leave it up to the
7 manufacturer to find an appropriate way of doing the
8 monitoring.

9 CHAIRMAN GENCO: Is there some reason why
10 the one, you know, this OD is critical. Are we going
11 to be misled or is anybody going to be misled if they
12 use a .5?

13 DR. WU: Because in the protocol it
14 doesn't specify what is starting cell consistency fu
15 per mil, starting cell concentration. If you start
16 out with a ten to the eight cells and we go through
17 the protocol and by the time you dilute it you've
18 ended up with 200 cells. And if a company comes and
19 do the testing they don't know what the starting
20 concentration is. And if they start with a .OD.2
21 which could be ten to the five cells, by the time they
22 go through the protocol they end up with no cells when

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1 they've played it out.

2 And they would think that the agent is
3 totally effective because they don't have any growth.
4 So they have to give a control starting concentration
5 in a controlled experiment and that's what I don't
6 see.

7 DR. LISTGARTEN: Well, I hope they have a
8 good enough Microbiologist on hand that they won't
9 just dilute themselves out of existence.

10 (Laughter.)

11 DR. WU: I don't know. Because if I were
12 to follow this protocol, I'm not sure, you know, where
13 would I start with the initial inoculum. It's a fool
14 proof thing, that's what I'm trying to say.

15 CHAIRMAN GENCO: Let's say that final
16 formulation testing is going to be submitted to the FDA
17 and the FDA Microbiologist would look at it so they
18 would determine if it was adequately done. Is that
19 the way this is?

20 DR. KATZ: No. Basically what's done with
21 the final formulation testing is that the manufacturer
22 is obligated to do it but the FDA doesn't necessarily

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1 get the results back to review. So that the only time
2 that they are reviewed is at the time of inspection.
3 So that we may not see --

4 CHAIRMAN GENCO: Right.

5 DR. KATZ: -- the final formulation
6 testing, even though the manufacturer is required to
7 do it, that we may not get it back to review.

8 CHAIRMAN GENCO: But it's at risk for
9 being reviewed at the time of inspection?

10 DR. KATZ: That's correct.

11 CHAIRMAN GENCO: So, in fact, it must be
12 done right.

13 DR. KATZ: That's correct.

14 CHAIRMAN GENCO: Because nobody knows when
15 the inspection is going to occur. So I think that the
16 answer is that it is subject to review, therefore, it
17 has to be done right. So I think we can, we can,
18 Chris, would you agree that we can be too prescriptive
19 and shouldn't at this point because it's subject to
20 review. Okay. Bill and then Lew.

21 MR. CANCRO: I was only going to add that
22 you have to remember that this has to match a sample,

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1 the gold standard in a sense, which has to perform in
2 the test. So, you know, this is profile matching of
3 the chemical and biological activities of each of
4 these things. As you, according to the tests you
5 propose.

6 CHAIRMAN GENCO: So, so far all we've
7 recommended is a suggested list for cultural testing.
8 Okay. Any problem with that? Bill.

9 DR. BOWEN: I don't want to prolong this,
10 Bob, but I'm appalled by the four organisms. There's
11 gram negative and there's no gram positive organisms
12 included. And it's well recognized -- sorry?

13 DR. LISTGARTEN: It's gingivitis. They
14 are periobugs.

15 DR. BOWEN: Yeah, but it's the periobugs
16 that have to exist in a plaque matrix. And a plaque
17 matrix, for the most part, is made up of extracellular
18 polysaccharides derived from sanguous mutans and
19 actinomyces. So one or more of those should be
20 included. But I know we revisit this issue, so I just
21 wanted to get it on the record.

22 CHAIRMAN GENCO: Well, we could do that

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1 now. If you'd like to add, and representative gram
2 positives such as strep mutans, strep sanguous?

3 DR. BOWEN: Yeah.

4 CHAIRMAN GENCO: Would you object to that?

5 DR. BOWEN: No.

6 CHAIRMAN GENCO: Okay. Okay, any further
7 comments about that suggested list of organisms?
8 Okay, let's go now to the two-week experimental
9 gingivitis. What's recommended here is that a
10 differential morphotype count be carried out including
11 the coccoids, spirochetes, motile rods, other
12 morphotypes and that also the cultural studies, for
13 example, of these organisms be carried out. So the
14 experimental gingivitis would of course look at
15 plaque, gingivitis and the microbes.

16 The microbes being looked at include
17 *Fusobacterium nucleatum*, *Porphyromonas gingivalis*,
18 *Prevotella intermedia*, *Bacteroides forsythus*, candida
19 species, gram negative enteric rods and gram positive
20 representative organisms such as strep sanguous and
21 strep mutans. Either by culture or by some other
22 appropriate technique, PCR, immunofluorescence.

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1 DR. LISTGARTEN: Probably no PCR.

2 CHAIRMAN GENCO: Okay, immunofluorescence.

3 DR. LISTGARTEN: Or DNA probes.

4 CHAIRMAN GENCO: So culture or alternate
5 technique, because we don't know what the future is
6 going to hold for these tests. And then also
7 morphotypes should be looked at. Mike.

8 DR. BARNETT: Yeah, I just, could we
9 discuss, Max, the rationale for this extensive,
10 because this is all done in the six-month trials and
11 now we're showing comparability --

12 DR. LISTGARTEN: These are just examples.
13 I don't think these are, I mean, maybe it's not, maybe
14 it's turning out to be too strong a list. I think
15 that originally this was supposed to be a laundry list
16 of the type of organisms that might be included. It
17 doesn't mean that anyone is held to that. And perhaps
18 that hasn't been emphasized enough, Bob, that this is,
19 for example, this is a for example list.

20 CHAIRMAN GENCO: Right. And these are
21 representative.

22 DR. BARNETT: Yeah, I was wondering since

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1 we've included many of these or some of these
2 organisms in the invitro test, whether the morphotype
3 analysis and the cultural determinations for the
4 invivo may be overkill. And whether, for example, the
5 morphotype analyses by themselves would be sufficient
6 to answer the questions about comparability of
7 formulations on an invivo basis.

8 MR. CANCRO: Is the purpose of this
9 additional testing invivo safety or efficacy?
10 Remember, remember the model that the company is
11 proposing has an end point of plaque and gingivitis.

12 CHAIRMAN GENCO: Right.

13 MR. CANCRO: And this type of testing was
14 really looked at, I think, originally from the
15 perspective of whether or not you are getting shifts
16 in the oral flora. So remember the profile testing is
17 to ensure that some formulation change, other than the
18 active ingredients in the concentration being proposed
19 has changed. And hence, you want to be sure that they
20 are delivering the efficacies.

21 So is this necessary or is this really
22 thought of as looking at some ecological shift in the

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1 bacteria.

2 DR. RIGGS: But if industry wants to, they
3 can do the six-month clinical trial instead of these
4 steps. Is that correct? It's either or? So if this
5 is onerous, then they can go back to the six-month
6 clinical trial?

7 MR. CANCRO: The industry, and I'm sure
8 the FDA would agree, can always go to the full-term
9 clinical trial. I mean anybody can do that.

10 DR. RIGGS: Right.

11 MR. CANCRO: What we're proposing here is
12 have you changed the conditions under which the drug
13 is being delivered. And the manufacturer, and you
14 have agreed, has proposed a certain way to do it. Now
15 what I'm asking is you're monitoring the microbes
16 during this two to three-week trial and to what
17 purpose?

18 Is it to convince yourself that there's no
19 shift in the actives? Because you've already been
20 convinced of that in the six-month trial. Or is it a
21 measure of efficacy? And I don't think it's the
22 latter. I don't think --

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1 CHAIRMAN GENCO: I think that what the
2 original intent was, was for the invitro testing to
3 add a more up-to-date group of organisms, that's all.

4 MR. CANCRO: Invitro.

5 CHAIRMAN GENCO: And I think what has
6 happened is we've had the suggestion now to also do
7 this in the gingivitis. And I think we could discuss
8 that. I think the original intent was to add more,
9 you know, the bugs that are representative of
10 gingivitis that would be, the reasonable bugs don't,
11 not proving anything, but the reasonable bugs to look
12 at in the invitro testing.

13 So Max, would you think that's reasonable
14 that we don't put the microbiology as part of the
15 experiment with gingivitis?

16 DR. LISTGARTEN: I'd be quite happy --

17 CHAIRMAN GENCO: Okay.

18 DR. LISTGARTEN: -- to leave it out. I
19 mean I --

20 CHAIRMAN GENCO: So then we made a
21 representative list of organisms modified by Bill to
22 include some gram positives.

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1 MR. CANCRO: Invitro, invitro.

2 CHAIRMAN GENCO: Invitro.

3 MR. CANCRO: Fine.

4 CHAIRMAN GENCO: As markers for potential
5 activity in six-month trials.

6 DR. LISTGARTEN: And if you are going to
7 use invitro, it may not be appropriate to even include
8 differential morphotype counts.

9 CHAIRMAN GENCO: Yeah.

10 DR. LISTGARTEN: Because of, that's
11 something that could only be used in invivo studies
12 and --

13 CHAIRMAN GENCO: So the recommendation
14 is --

15 DR. LISTGARTEN: I think this could be
16 only for --

17 (Both are talking at once.)

18 CHAIRMAN GENCO: Here is a list of
19 representative examples of organisms that could be
20 used. Okay. Any disagreement with that then? So
21 there will be no comment with respect to the clinical
22 study and microbiology. Okay, thank you. Now with

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1 respect to dosage, let's go back to that issue. Bruce
2 Kohut would like to make a presentation. Are you read
3 Bruce?

4 MR. KOHUT: Good morning Dr. Genco and
5 members of the panel. Thank you for the opportunity
6 to again comment further on the issue of suitable
7 dosage forms for category one anti-plaque, anti-
8 gingivitis active ingredients. I will keep my
9 comments very brief. During your discussions
10 following our presentations on Wednesday, questions
11 were raised on the safety of the higher fixed
12 combination concentrations required for different
13 dosage forms.

14 These questions were what is the acute
15 soft tissue safety of the higher concentrations, even
16 though the actual, the absolute amounts are the same.
17 And what is the potential fixed combination exposure
18 levels from these products. These are very important
19 safety issues and we appreciate the subcommittee's
20 questions. We believe, however, that each question
21 has been or can be addressed.

22 Safety can be assured by limiting the

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1 dosage form to those not intended for ingestion.
2 Requiring the milligram dose in any dosage form to be
3 no greater than the mouth rinse milligram dose. And
4 requiring specific attention to specific soft tissue
5 reactions as part of the performance test. What is
6 the acute soft tissue safety? Regardless of the same
7 milligram dose, higher concentrations, as Dr. Bowen
8 pointed out, can carry a potential risk of acute soft
9 tissue irritation.

10 We agree. And as part of our dentifrice
11 development program, we extensively assess the safety
12 of these higher concentrations in dentifrices. We
13 initially hypothesize that the higher concentration
14 would be rapidly diluted intra-orally during use.
15 This was based on the generally accepted premise that
16 a dentifrice is diluted three to one during use. Duke
17 and Forward published in the British Dental Journal
18 that following 30 seconds of brushing, the dentifrice
19 was diluted to 22 percent of its original volume.

20 Theoretically, the ten time concentration
21 of a fixed combination would be expected to be diluted
22 to only 2.2 times, that of the mouth rinse, during a

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1 30 second brushing. We next tested this irritation
2 potential clinically. We conducted exaggerated use
3 irritation studies on the dentifrices containing the
4 fixed combination at both eight times and ten times
5 the concentration in the mouth rinse.

6 This exaggerated study design is an
7 industry standard and evaluates acute soft tissue
8 irritation and sensitization potential of dentifrices
9 when subjects brush five times a day at hourly
10 intervals over a period of five days. Examinations
11 are performed on days one, three and five. Both the
12 eight and ten times concentrations were found to be
13 safe under the exaggerated use conditions of these
14 studies.

15 Beyond these specific safety studies and
16 to finally assure safety, we have recommended that a
17 clinical trial of six-month duration be required. And
18 soft tissue assessments will be conducted at each exam
19 period. In addition to compliance, in addition, in
20 compliance with good clinical practices, there would
21 be in the protocol extensive instructions on the
22 definition, handling and reporting of any adverse

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1 events.

2 We believe that the expected intra-oral
3 dilution, the completed irritation studies and the
4 recommended six-month trial or assure the acute soft
5 tissue safety of these higher concentrations of the
6 fixed combination. There were additional questions on
7 dose, on total exposure. During Mr. Hutt's
8 presentation on Wednesday, he listed three fundamental
9 points when considering suitable dosage forms.

10 His second point involved the exclusion of
11 dose forms for safety concerns. Additionally, Dr.
12 Katz clarified the scope of the dose forms by
13 recommending that only traditional dose forms be
14 considered. We agree with Dr. Katz. We therefore
15 recommend for the purposes of this monograph, dose
16 forms be limited to only those intended, excuse me,
17 only those not intended for ingestion, thus excluding
18 products such as chewing gums and lozenges.

19 This restriction, along with limiting the
20 milligram dose to that in a mouth rinse or 51.7
21 milligrams per dose, would control the fixed
22 combination systemic exposure and in deed align the

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1 potential total body exposure with that of the
2 accepted long term safety of the fixed combination
3 mouth rinse. Dr. Bowen when discussing safety,
4 expressed concern over the differences in intra-oral
5 retention of mouth rinses and dentifrices.

6 While we agree with Dr. Bowen on these
7 expected differences and retention rates, we feel that
8 there still is sufficient data to support the systemic
9 safety of fixed combination dentifrices. During the
10 Subcommittee's previous deliberations, the safety of
11 the fixed combination was determined in part by
12 evaluating total body exposure using a conservative
13 estimate of mouth rinse retention of 20 percent of the
14 dose.

15 In reality, mouth rinse retention is less.
16 The expected dentifrice retention is certainly within
17 this 20 percent and thus the previously reviewed data
18 supports the safety of fixed combination dentifrices
19 also. In conclusion, we believe that safety can be
20 assured for fixed combination dentifrices by
21 restricting a monograph to any oral dosage form not
22 intended for ingestion, requiring products to deliver

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1 no more than 51.7 milligrams per dose. And requiring
2 a six-month performance study with specific safety
3 assessments. Thank you for your attention and I or
4 any of my colleagues would be glad to answer your
5 questions.

6 CHAIRMAN GENCO: Okay, thank you, Bruce.
7 Any comments, questions? Bill.

8 DR. BOWEN: I would agree with everything
9 you've said, Bruce. But I still have one more
10 additional concern that I have raised on other
11 occasions. There's a growing segment of the
12 population who lacks saliva for one reason or another.
13 Mainly as a result of prescription drug activity. And
14 I would suggest that the, paced with the eight to ten
15 times elevated concentration of a fixed oil be tested
16 in a subgroup of that population for irritation.

17 If I understand you correctly, you did
18 carry out the exaggerated use test in persons who had
19 normal salivary flow.

20 MR. KOHUT: That's correct, Bill. That's
21 a very good point and I would agree with your
22 recommendation.

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1 CHAIRMAN GENCO: Chris.

2 DR. WU: I have a question. Now when the
3 mouth rinse is formulated, your ingredients, the oils
4 are dissolved in alcohol so they are readily
5 available. Now when you come up with the toothpaste
6 formulation with the same concentration of the oils,
7 do you test for availability of how much your
8 combination of oils is released or available in the
9 oral cavity when it's in a different formulation.

10 MR. KOHUT: Yes, as part of GMP we have to
11 do assessments of the chemical availability of the
12 essential oils and they will meet GMP requirements.
13 And the clinical testing also demonstrates that. I
14 mean that certainly is the advantage of the, of the
15 performance test within our recommendation.

16 CHAIRMAN GENCO: Further comments,
17 questions? So it appears then that you're suggesting
18 that this monograph limited to those that are not,
19 those dosage forms not intended for ingestion?

20 MR. KOHUT: That's correct.

21 CHAIRMAN GENCO: Which means topical use.

22 MR. KOHUT: No, forms such as a chewing

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1 gum or a lozenge. Restricting it to dosage forms
2 which are expectorated.

3 CHAIRMAN GENCO: Okay. Any comments about
4 that issue. Is the panel in agreement with that?

5 DR. RIGGS: Linda, what was the term you
6 used yesterday about standard?

7 DR. KATZ: It's actually referred to
8 tradition dose form. But I guess one other point and
9 I guess maybe I can sort of make the point now,
10 because I was going to wait later in terms of the
11 discussion, but it seems like this might be the time
12 to do it. Is that also when considering dosage forms
13 and traditional dosage forms, one also has to remember
14 what was presented in terms of what, going back to the
15 discussion on Wednesday, what was voted on for
16 category one types of ingredients.

17 Then in some cases test form may be
18 important in terms of what it is the data has been
19 presented, what's been available. So that in those
20 cases, monographs have specified a specific dosage
21 form. In other cases, a traditional dosage form may
22 be used because it's felt that one form may be

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1 substituted with another form going back to do the
2 required testing. And that once the required testing
3 is done and the standards are met, that there's
4 really, that one form may be substituted for another.

5 And that was actually part of the point
6 that I was trying to make on Wednesday and I'm not
7 sure that it actually got made. Is that when we're
8 trying to decide, since we didn't actually decide on
9 dosage forms and our discussion was kind of free
10 floating back on Wednesday as to different
11 possibilities, is to go back and look at what it is
12 that you've assessed for category one and whether or
13 not you feel a traditional dosage form is acceptable
14 for what one has put into category one, or whether or
15 not any of these a specific dosage form needs to be
16 specified.

17 For example, whether or not it is
18 important to say that something should be a gel or a
19 paste or whether or not. Does it make a difference if
20 it's a mouth rinse or another type of a dentifrice.
21 Because what you're going to allow and what you're
22 going to say is acceptable will then go into the

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1 monograph and then these products will be substituted
2 provided that they can meet the accepted standards.

3 If one feels that there is an issue that
4 arises, that something needs to go back to be tested
5 because this was not looked at by what you've put into
6 category one, then that becomes either a new drug or
7 needs to be a petition into the monograph to be
8 allowed. And I'm not sure that that point was made
9 clear.

10 CHAIRMAN GENCO: Linda, with respect to
11 the specific dosage form and the traditional dosage
12 form, just so that we're clear, in the case of this
13 monograph we have, we've only looked at two specific
14 dosage forms, a mouth rinse and a dentifrice. So if
15 it was the, the monograph was limited to category one
16 status for those agents that have been tested in
17 either of those two forms, then that would be the most
18 extreme limitation?

19 DR. KATZ: That's correct.

20 CHAIRMAN GENCO: Okay. Now the standard,
21 traditional dosage form could be any of the three
22 agents in either of those two dosage forms.

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1 DR. KATZ: That's correct.

2 CHAIRMAN GENCO: That would be the
3 traditional.

4 DR. KATZ: That's correct. Otherwise what
5 will --

6 CHAIRMAN GENCO: But this, that is more
7 restrictive than what Bruce was suggesting is non-
8 ingested.

9 DR. KATZ: That's correct.

10 CHAIRMAN GENCO: That's even more liberal.

11 DR. KATZ: That's correct.

12 CHAIRMAN GENCO: Okay. So we have that in
13 mind. So the more specific is the anti-gingivitis
14 would be the dentifrice, stannous fluoride and the
15 mouth rinse would be other two. And the monograph
16 could be limited to that. Or, the next step would be
17 to log the traditional dosage form, any one of those
18 three category one agents in either of those dosage
19 forms, dentifrice or mouth rinse.

20 DR. KATZ: That's correct.

21 DR. RIGGS: Where does gel fit into that?
22 That's not a traditional?

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1 CHAIRMAN GENCO: That's not --

2 DR. KATZ: That's not considered a
3 traditional, however under the other, the proposal we
4 heard this morning, the gel would fall into that. So
5 that that would be, if you were looking at topical
6 forms, non-ingested topical forms, a gel would fit
7 into that category.

8 CHAIRMAN GENCO: So that's the third
9 category that the non-ingested would include the gel.
10 That would be the only other type?

11 DR. KATZ: I can't think that there's
12 anything else that would fall there.

13 MR. KOHUT: I can't either, Linda.

14 CHAIRMAN GENCO: And that gel would be as
15 a dentifrice on a toothbrush or in a tray or applied
16 as a paint to the tooth?

17 DR. KATZ: It could be any of the above.

18 CHAIRMAN GENCO: Any of those.

19 DR. KATZ: That's right.

20 CHAIRMAN GENCO: Regardless of
21 application, okay. So I think the panel now, is it
22 clear, the three possibilities? Specific, traditional

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1 and traditional and not for ingestion, which would
2 include the gel.

3 DR. KATZ: That's right.

4 CHAIRMAN GENCO: Okay.

5 DR. LISTGARTEN: And just to, for
6 clarification one more time. If what we've reviewed
7 has only been marketed as a rinse and someone wanted
8 to market it either as a toothpaste or as a gel, they
9 would have to come back, with an MDA, to do this.

10 MR. KOHUT: No. What we're suggesting is
11 that a six-month performance test should be done to
12 demonstrate the efficacy of that product.

13 DR. LISTGARTEN: Okay, but a six-month
14 performance test would have to be done?

15 MR. KOHUT: Yes, that's correct.

16 CHAIRMAN GENCO: All right, that scenario
17 would be that any three of these category one agents
18 could be used in any of the two, three forms, gel,
19 dentifrice, mouth rinse. But if the previous, what
20 we've reviewed wasn't that form, the new form would
21 have to have one, six-month clinical trial safety and
22 efficacy, for safety and efficacy.

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1 In other words, if Listerine came in as a
2 dentifrice it would have to have one six-month trial
3 as a dentifrice. Is that, I mean that's a scenario.
4 And that could be a recommendation from the panel.

5 DR. KATZ: Let me go back one more time.

6 CHAIRMAN GENCO: Okay.

7 DR. KATZ: Depending upon, now in terms
8 of, from the last scenario, in which way would you, if
9 you voted Listerine for example, since you used that
10 example. What, in terms of, how would you, what would
11 you put into category one?

12 CHAIRMAN GENCO: Okay, it's in category
13 one as a mouth rinse.

14 DR. KATZ: Umm hmm.

15 CHAIRMAN GENCO: We're saying if the
16 traditional form would include a dentifrice for any of
17 the category two, as well as a mouth rinse, but if it
18 hadn't been previously tested, let's say Listerine, as
19 a mouth rinse. Not it's being tested as a dentifrice.
20 It would have to, the performance test would be the
21 six-month trial, which should satisfy the issue of
22 concentration that Dr. Bowen brought up. Maybe it

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1 does, maybe it doesn't.

2 Because you'd look at, maybe you'd want
3 exaggerated testing to, but just to get that on the
4 table as a scenario.

5 DR. KATZ: Right, no that is correct.
6 That is correct.

7 CHAIRMAN GENCO: Okay.

8 DR. KATZ: Let me go back a little bit
9 because this may also clarify or help to clarify for
10 different types of products that have been allowed or
11 the formulation, the formulations of them. For the
12 anti-carries drug products, basically what's been
13 allowed for it to be is a dentifrice, toothpaste,
14 tooth polish, tooth powder, gel and so, rinses, rinse
15 powder, rinse effervescent tablets, mouth wash. So
16 these are all things that have come in through that
17 traditional guise.

18 CHAIRMAN GENCO: But presumably most of
19 those have been tested. There have been experience
20 with those. Whereas we're looking at products with
21 not, I mean I don't know of anybody that's put
22 Listerine in an effervescent tablet or that sort of

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1 thing. We're not looking at it.

2 DR. KATZ: No.

3 CHAIRMAN GENCO: We're, for us those are
4 theoretical. For the caries group that was probably
5 based upon experimental evidence.

6 DR. KATZ: That's correct.

7 CHAIRMAN GENCO: Okay. Peter.

8 MR. HUTT: I'd just like to again put this
9 very briefly in context. The way that the majority of
10 monographs have been handled is to permit, in effect,
11 any appropriate dosage form without trying to, and
12 I've never seen the word traditional used in any
13 monograph. I may be wrong. Linda, are you --

14 DR. KATZ: No, no, you're right.

15 MR. HUTT: All right.

16 DR. KATZ: Okay. Because we had used the
17 category on Wednesday so I was trying to hone back to
18 what we meant by traditional from Wednesday's
19 discussion.

20 MR. HUTT: Okay, but I think that
21 crystallizes the issue. Because there is no list of
22 traditional dosage forms and in deed the industry is

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1 constantly coming up with new ways of applying active
2 ingredients to the teeth. In a sense they are
3 traditional in that they are all applying it to the
4 teeth, but they are using new mechanisms of
5 application to make it more effective, safer, perhaps
6 more easily used by the consumer.

7 Now if you try to come up with a list,
8 what you're telling the industry is give up that
9 research because you need a new drug application.
10 It's going to take you five or ten years to do it.
11 And that's why FDA has, over the last 25 years gone to
12 a broader characterization and the actual
13 characterization used at least in the first section of
14 the anti-cavity monograph was in any dosage form
15 suitable for application to the teeth.

16 But adding Bruce's qualification, and not
17 intended for ingestion. That cuts off the ones that
18 are intended for ingestion. It leaves the ones that,
19 as you pointed out Bob, are expectorated, but doesn't
20 limit technology. Because if we think, well, okay, a
21 gel is one type of existing, maybe traditional, way of
22 applying it. I think if we sat down we could think up

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1 50 more that no one has ever looked at but that could
2 be major advances not worthwhile going through an NDA,
3 but would pass the performance test.

4 And that is the key to the whole thing.
5 It has to pass the performance test. It has to pass
6 Bill's concern about being irritating in too high a
7 concentration. It has to pass all these tests to
8 assure both safety and effectiveness. So I would
9 urge, cut out that traditional category, which in a
10 sense is meaningless. It really is in any form
11 suitable for application to the teeth or just list
12 them.

13 CHAIRMAN GENCO: Thank you. So the and
14 other scenario is the more liberal, a more liberal, is
15 dosage forms not for ingestion which would include
16 dentifrice, mouth rinse, gel and x.

17 DR. LISTGARTEN: Could it include a spray?

18 CHAIRMAN GENCO: Well, that's the problem.
19 When you get into that then you might have, you know,
20 other safety issues. So I think that's a good,
21 excellent question.

22 DR. KATZ: A chewing gum is not meant to

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1 be ingested, but --

2 CHAIRMAN GENCO: The ingredients are.

3 DR. KATZ: That would be --

4 MR. HUTT: Yes, yes.

5 CHAIRMAN GENCO: So we'd exclude the
6 chewing gum or lozenge or pastille.

7 MR. HUTT: Yes, yes.

8 DR. KATZ: And a spray would probably be
9 excluded as well for a variety of other reasons that
10 it just would not fall into one of those categories.

11 CHAIRMAN GENCO: But there may be x that
12 we haven't thought of. This is what Peter was saying.
13 That would be consistent with not ingested, but not
14 have the problems associated with a spray or anything,
15 a powder or what have you.

16 DR. KATZ: It's possible. It's possible.

17 MR. HUTT: There are, there are dozens of
18 additional possibilities. Some have been used in the
19 past. Some are obviously in the laboratory today and
20 the critical issue is, are they intended to be applied
21 to the teeth. And are they expectorated, i.e., not
22 intended for ingestion.

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1 CHAIRMAN GENCO: Right.

2 MR. HUTT: Those, and do they pass the
3 performance, the two performance tests that we've
4 talked about.

5 DR. RIGGS: The two-week and the six-
6 month.

7 MR. HUTT: That is correct. They must --

8 DR. RIGGS: And Bill's

9 MR. HUTT: They must --

10 CHAIRMAN GENCO: No, not the two-week,
11 excuse me. We're mixing performance tests. Let me
12 just clarify that, excuse me.

13 MR. HUTT: All right.

14 CHAIRMAN GENCO: The performance test is
15 for the category one agent if you want to make a new
16 Listerine. You know, another mouth rinse, you have to
17 pass the invitro and the two-week. We're talking
18 about a six-month clinical. That's the only thing
19 that's been discussed now for going from a dentifrice
20 to a mouth rinse, a mouth rinse to a dentifrice or
21 mouth rinse to a gel. Or a mouth rinse or dentifrice
22 to x.

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1 DR. RIGGS: Right. But what about Bill's
2 point --

3 CHAIRMAN GENCO: Six, so far the only
4 performance test is the six-month trial. And what I'm
5 asking now, would there be other performance tests.
6 The problem is we probably wouldn't know. For x there
7 may be a unique performance test that's very
8 important. But because of that mode of application,
9 we wouldn't know about that.

10 MR. HUTT: But because it is for
11 application to the teeth, the same performance test
12 would apply. No matter how you apply it to the teeth,
13 the question is whether you get the reduction in
14 gingivitis that is required and --

15 CHAIRMAN GENCO: Let's say it's a powder,
16 which brings up a whole other set of safety issues,
17 inhalation, etcetera. That's what I'm --

18 MR. HUTT: Okay. This is covered under
19 the protocol. I checked it personally as a matter of
20 fact to make certain that that issue would be covered.
21 There are four or five pages that require under the
22 protocol that people and that the investigators check

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1 to make sure there is no untoward effects in the mouth
2 to make certain that if there are any they are
3 immediately reported to the sponsor and the study is
4 stopped and a full examination is done. A n d I
5 personally was satisfied that this was --

6 CHAIRMAN GENCO: That the six-month trial
7 would --

8 MR. HUTT: Would solve Bill's problem,
9 yes. Now if you wish to see that, we have those five
10 pages here and there's no reason why you wouldn't --
11 you could write that write in the monograph. We would
12 obviously have no objection. That is what Bruce
13 referred to as good clinical practice.

14 CHAIRMAN GENCO: So the greatest comfort
15 level may be with, whatever you want to call it, those
16 applications such as dentifrice, mouth rinse and gel,
17 period. Because those, those we all might feel
18 comfortable about. That's one scenario.

19 MR. HUTT: Now, as you point out, you're
20 then cutting off --

21 CHAIRMAN GENCO: Exactly. But I'm just
22 clarifying so that we can discuss the two.

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1 MR. HUTT: Yes.

2 CHAIRMAN GENCO: The other possibility is
3 the, those three plus x, which would be the non-
4 ingestible.

5 MR. HUTT: Yes.

6 CHAIRMAN GENCO: I guess the question is
7 that, what is your feeling? Which scenario, the first
8 or the second. The first would be the dentifrice, the
9 gel, the mouth rinse and that's it. The second
10 scenario is those three plus x, as long as it's non-
11 ingestible, expectorated. Bill.

12 DR. BOWEN: I'm in favor of the second one
13 because again we are to some extent hide bound by the
14 manner in which we deliver therapeutic agents to the
15 mouth. On the one hand, frequently we're trying to
16 clean the tooth. On the other hand, trying to deposit
17 material that is clinically effective. And I think it
18 would be a pity to restrict innovation in delivering
19 products that are effective. And I feel reassured in
20 that any, for the want of a better term, reformulation
21 or new method of delivery is going to be subject to a
22 six-month test with all the attendant safeguards and

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1 I would support the second proposition.

2 CHAIRMAN GENCO: With a single six-month
3 test as the performance standard for the final
4 formulation of this new formula.

5 DR. BOWEN: Correct.

6 CHAIRMAN GENCO: Okay.

7 DR. LISTGARTEN: I would exact that.

8 DR. WU: I support that. Now if someone
9 come up with a different delivery system, would that
10 be considered dental device?

11 CHAIRMAN GENCO: I think that, for
12 example, we discussed a little plastic pellet that's
13 attached to the tooth and releases this agent. That
14 would most likely be a device.

15 DR. KATZ: It would probably fall under
16 the combination. And depending upon what the intended
17 mechanism of action is would determine whether it's
18 categorized as a device or whether as a drug.

19 CHAIRMAN GENCO: So this brings up another
20 issue. There is an obvious level of control at the
21 FDA. In other words this, they would have to apply to
22 you with their six-month, results of the six-month

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1 trial for this new dosage form. And you'd have to
2 make a judgement that it in deed fell within the
3 context of the monograph or didn't.

4 DR. KATZ: That would be correct.

5 CHAIRMAN GENCO: Okay, good. So that if
6 some, some questionable dosage form or delivery form
7 came up, the FDA obviously would make a ruling whether
8 it fell under the monograph or not.

9 DR. LISTGARTEN: If you have a slow-
10 release capsule sitting on your tooth, you're going to
11 swallow it. It's not designed for expectoration.

12 CHAIRMAN GENCO: Well, I've used that as
13 a, just to answer the question. Okay, should we take
14 a vote on that or is there any disagreement with the
15 suggestion then. Okay, so the suggestion is that the
16 monograph cover dentifrice, mouth rinse, gels and
17 other non-ingestible forms meant to be expectorated of
18 agents, anti-plaque and anti-gingivitis agents.

19 But that these new dosage forms be
20 subjected to six-month clinical trial in which
21 efficacy and safety is assessed. And the details of
22 that protocol, I think we should look at between now

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1 and the next meeting or two, if you'd like to do that.

2 MR. KOHUT: I'll be glad to submit that.

3 CHAIRMAN GENCO: Okay, thank you. Yes.

4 MS. BUCK: Nancy Buck, representing
5 Pfizer. I have a question about the linkage between
6 Wednesday and today. I had understood that the
7 different dosage forms and the protocol that Dr. Kohut
8 had proposed today were applicable only to the four
9 essential oils, the fixed combination.

10 CHAIRMAN GENCO: No, no. That was if
11 somebody else wanted to make another fixed combination
12 mouth rinse, they had to do two things. Invitro
13 testing in the laboratory, antimicrobial. And a two-
14 week anti-gingivitis trial.

15 MS. BUCK: I would simply ask the
16 question, do all three products that are now proposed
17 for category one share the same characteristics such
18 that such an extensive testing program for a change in
19 dosage form, any change in dosage form, is really
20 necessary?

21 CHAIRMAN GENCO: Okay.

22 MS. BUCK: Because I, it is, it is wildly

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1 unconventional to have a six-month clinical trial as
2 the basis for changing a dosage form within broad
3 limits. And so I would seriously ask the question, in
4 fact I know of no other where such extensive
5 performance testing has been required for a change in
6 dosage form in the OTC Review. I don't believe there
7 is any precedent for that whatsoever.

8 And it may be necessary for the
9 combination known as Listerine, but I would ask, is it
10 really necessary to have such extensive testing? I
11 mean that's a lot of testing for the OTC Review. It's
12 been down played as performance testing, but that is
13 a major big deal and I would ask whether the other two
14 require the same kind of testing.

15 CHAIRMAN GENCO: That is if CPC was put
16 into a dentifrice.

17 MS. BUCK: For example.

18 CHAIRMAN GENCO: If stannous fluoride was
19 put into a mouth rinse.

20 MS. BUCK: For example.

21 CHAIRMAN GENCO: If any of those were put
22 into a gel.

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1 MS. BUCK: For example.

2 CHAIRMAN GENCO: If any of those were put
3 into x.

4 MS. BUCK: Right.

5 CHAIRMAN GENCO: Ask the committee, what
6 are your feelings? I think one of the problems is we
7 haven't seen that done. And --

8 DR. LISTGARTEN: We don't have anything to
9 go by. We have no precedent. If we had a precedent
10 it would be easier to say we don't need a six month.

11 CHAIRMAN GENCO: All we've seen done is
12 one abstract where a mouth rinse at one-tenth the
13 concentration has been made into a dentifrice at ten
14 times or eight times the concentration. The company
15 has gone through great extent to look at concentration
16 of this dosage. So I think that's, that's what we're
17 being advised by, we're learning from that. I would
18 have to agree to some extent that maybe going the
19 other way is not such a problem, going from the high
20 concentration dentifrice to a mouth rinse. But we
21 haven't seen the data either.

22 And it maybe that getting it into solution

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1 in a mouth rinse would cause all kinds of problems,
2 so.

3 MR. HUTT: Bob, I'd just like to remind
4 you that, and Bruce has made this point before, that
5 Warner Lambert certainly agrees that as shorter term
6 tests are validated, as standards become available
7 against which you can test the newer forms, everyone
8 is in agreement that the shorter term testing should
9 be substituted for the six-month. The only reason
10 that Warner Lambert suggested the six-month study was
11 because of the lack of a standard at this moment for
12 the dosage forms other than the mouth rinse.

13 So no one suggests that the six-month is
14 perfect. It's a, if you will, an interim solution to
15 a difficult problem and will assure safety and
16 effectiveness.

17 CHAIRMAN GENCO: And I think the spirit of
18 the committee is to make a shorter term where it's
19 more reasonable when you're going from one formulation
20 of a mouth rinse to an identical formulation just
21 handled by a different company. Then of course that
22 test if going to be much less onerous. And I think

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1 that's what the performance tests reflect. And in
2 fact I think the performance tests for stannous
3 fluoride and for CPC are quite minimal. Bill.

4 DR. BOWEN: Oh, I just want to make the
5 point that changing it, this isn't simply a change in
6 dosage form, it's a change in concentration. And
7 change in dosage form isn't necessarily the same as
8 change in concentration. And that the standards that
9 were applied in the past don't necessarily apply to
10 increasing the concentration of a topical application.

11 CHAIRMAN GENCO: Okay, further comments on
12 Ms. Buck's discussion. Okay, I'd like now to address
13 the last point. And that is the total maximum daily
14 dose. Bruce recommended that it not be more than the
15 single application in the proven application. Let me
16 rephrase that. In the case of, I'm talking like a
17 lawyer now I think.

18 (Laughter.)

19 CHAIRMAN GENCO: In the case of, in the
20 case of Listerine, it's 51.7 milligrams per dose. And
21 what we heard was that the maximum daily dose, the
22 maximum daily exposure be that amount, whatever it is,

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1 per dose. In other words, if in a dentifrice the
2 recommendation is to brush twice a day, but people
3 brush four times a day, then the maximum for any of
4 those doses be 51.7 milligrams.

5 But that we don't really get into the
6 issue of the total dose per day, only the total
7 application time per day. And I think the bind we get
8 into is pointed out by Bill Soller is that some people
9 may use these things four times a day. And if we set
10 a maximum daily dose based upon use twice a day, that
11 may be unrealistic. The problem is we don't have the
12 data.

13 We have the data on the toxicity, which is
14 done at very high doses, in grams. And the use level
15 is in milligrams. The intermediate, how many
16 milligrams, how many hundreds of milligrams, we don't
17 really have the data. The example of the aspirin is
18 a good one. It's instructive because the
19 rheumatologist had the data on aspirin to make a
20 maximum daily dose of one gram or four grams, whatever
21 it is, before your ears start ringing. They already
22 had the experience. They know the toxicity level is

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1 way higher.

2 They know the average use is way lower.
3 But the maximum dose could be quite a bit higher,
4 maybe six or seven times the average use and still
5 would not cause serious problems. But we don't have
6 that kind of data, I don't think.

7 MR. CANCRO: Bob, I think I helped
8 introduce, really, a misconception which is what the
9 dosage, I believe, that Bruce is talking about is the
10 minimum effective dose. The safety dose has to be set
11 on the basis of toxicity issues, what the manufacturer
12 submitted by way of tolerance to ingestion,
13 irritation, etcetera. So the, what, what is being
14 proposed, I believe, is that to achieve effectiveness,
15 the minimum dose is two times 52 milligrams in effect.

16 That's the dose at which the manufacturer
17 believes the product will deliver an anti-gingivitis,
18 anti-plaque effectiveness. The maximum dose is always
19 set at a higher level because the manufacturer has
20 supplied you with the toxicological consequences of,
21 you know, the upper limit.

22 MR. KOHUT: A point of clarification. The

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1 dose I'm suggesting is for safety. The maximum dose
2 is for safety.

3 CHAIRMAN GENCO: It is safety?

4 MR. KOHUT: Yes, it is. And it's based
5 upon the safety of the product originally evaluated by
6 the subcommittee. In terms of efficacy, we're
7 suggesting that you may not need the same levels as in
8 a mouth rinse when you change dosage forms. Because
9 there are different conditions that would occur in the
10 mouth during that process. And that again is the
11 value of the six-month performance test.

12 CHAIRMAN GENCO: The presumption is the
13 six-month performance test would not violate the
14 maximum dose of the predecessor product.

15 MR. CANCRO: Oh, I misunderstood.

16 CHAIRMAN GENCO: For example, if it's
17 rinsing two times a day, then you'd put that dose in
18 each dose of toothpaste and use it twice a day. And
19 if that's the case, I mean that's one possibility.
20 Bill, do you want to comment?

21 DR. BOWEN: Yeah, I have a suggestion.
22 How about putting on the label, recommended use twice

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1 daily or three times daily, whatever the manufacturer
2 suggests. For more frequent use consult your dentist
3 or whoever.

4 CHAIRMAN GENCO: Max.

5 DR. LISTGARTEN: You know, we're dealing
6 with tremendously large safety margins in these
7 products. And I think that putting an upper limit is
8 almost pointless. I mean nobody is going to clean
9 their mouth 100 times a day. And I would bet that you
10 could clean your mouth 100 times a day and you'd still
11 be okay. I mean the bristles of the toothbrush might
12 tear your gums apart, but the product isn't going to
13 be harmful.

14 So I think this is a misguided type of
15 conversation because we're dealing -- you know, you
16 could swallow a tube of toothpaste and probably
17 nothing would happen.

18 CHAIRMAN GENCO: All right. So you're
19 saying that in one of these new formulation, new
20 dosage forms that as long as the total maximum dose is
21 comparable to or maybe identical to the maximum dose
22 of the present product than that's well within the

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1 safety margin.

2 DR. LISTGARTEN: Absolutely.

3 CHAIRMAN GENCO: And this Bill's
4 suggestion, if you want to use it more often, see your
5 dentist, is reasonable. Ralph, do you want to --

6 DR. D'AGOSTINO: No, I think the
7 discussion, you have to put something down as the
8 upper limit, but I think the margin is just so large
9 it's, it really is a sort of discussion that has to
10 fill a number but it isn't really going anywhere.

11 CHAIRMAN GENCO: Okay, good. Further
12 comments? Is that helpful? I think what we've
13 said --

14 DR. KATZ: That is helpful. The only
15 other question would be is there a duration, a maximum
16 duration or leave it open-ended.

17 CHAIRMAN GENCO: The only duration
18 consideration I heard was efficacy and that was for
19 desensitization which isn't really our subject here.
20 The presumption was with desensitization, if you had
21 it, you'd use it for four weeks. And then I don't
22 know what you do after that, change toothpastes

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1 without a desensitizer? But I think that's a
2 presumption. That there's no need to use the
3 desensitizer more than four weeks. Yes.

4 MR. SAXE: Are we talking about duration
5 of use on a daily basis of any of the agents?

6 CHAIRMAN GENCO: No, duration over time,
7 months, weeks.

8 DR. KATZ: Duration over time, exactly.

9 CHAIRMAN GENCO: Years.

10 DR. KATZ: Because actually I thought that
11 you did address the duration for the daily in terms of
12 Bill's suggestion with the directions to use twice to
13 three times a day, more often use to consult a
14 dentist.

15 MR. SAXE: On the daily basis also let's
16 recall that on the four essential oils most all of
17 these studies were done under strict supervision, at
18 least five out of every seven days in the duration of
19 the study. And there was, there was not casual use
20 but directed use, supervised use for a certain amount
21 of seconds, 30 seconds I believe. And I think then
22 that sort of information also then has to be, you

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1 know, within the label. So it's not only the times
2 per day but the duration in which the rinsing, in this
3 case, is to be done in order to, for the consumer to
4 get a sense that they're going to have a chance to be,
5 to be using an effective agent.

6 CHAIRMAN GENCO: I think we're getting
7 into the next topic, directions. And maybe that's a
8 good segue. Let's finish this one. Now dosage, both
9 dosage per application and maximum dosage. We're
10 comfortable with how that's left then. Okay, fine.
11 I think it's a good time to take a break. Why don't
12 we come back at ten to 11:00 and we'll talk about
13 directions. And I think that plus the calendar will
14 be the two items left. Thank you.

15 (Whereupon, the foregoing matter
16 went off the record at 10:33
17 a.m. and went back on the record
18 at 10:52 a.m.)

19 CHAIRMAN GENCO: I wonder if I could ask
20 you to take your seats for this last half hour or so
21 of our three day meeting. Plaque-a-thon. Okay, we'd
22 like to discuss now the directions. And we have a

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1 template here that we can work from and that was
2 provided to us by Bob Sherman. And I draw your
3 attention to his handout from yesterday, five pages
4 from the end. Safe and effective use of an ingredient
5 or dosage form. And the first issue is instructions
6 for different age groups.

7 I think it's probably best to take first
8 the dentifrice, stannous fluoride dentifrice and then
9 the mouth rinses. So let's discuss the dentifrice.
10 Let me read to you what's on the FDA approved anti-
11 gingivitis toothpaste. Adults and children six years
12 of age and older brush teeth thoroughly preferably
13 after each meal or at least twice a day or as directed
14 by dentist or doctor.

15 I think I'd object to the dentist or the
16 doctor, because dentists are doctors. Maybe dentist
17 of physician.

18 (Laughter.)

19 CHAIRMAN GENCO: Did you have anything to
20 do with that, Fred.

21 (Laughter.)

22 MR. HYMAN: That actually, that wording is

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1 in the anti-caries monograph.

2 CHAIRMAN GENCO: Is it.

3 MR. HYMAN: Yeah.

4 CHAIRMAN GENCO: Take it out.

5 (Laughter.)

6 DR. SOLLER: Actually they can be used
7 interchangeably, okay. They are interchangeable terms
8 under the regulations.

9 CHAIRMAN GENCO: Except that you get into
10 malpractice problems.

11 DR. SOLLER: It's a review, not the NDA.

12 CHAIRMAN GENCO: Okay. Is there any
13 comment to that. You don't have that in front of you,
14 let me read it again. Adults and children six years
15 of age or older. That's the first issue. So the age
16 is dealt with there. Adults, children, and children
17 six years of age and older. Any comments on that as
18 an instruction for the dentifrice now.

19 Brush teeth thoroughly, preferably after
20 each meal or at least twice a day. Thoroughly,
21 preferably after each meal or at least twice a day.
22 Or as directed by dentist or physician. Bill.

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1 DR. BOWEN: I'm not sure what is on the
2 label for children with the stannous fluoride product.
3 But several companies I know put --

4 CHAIRMAN GENCO: Yeah, it is the next
5 statement.

6 DR. BOWEN: Well, what I'm concerned about
7 before I read it is the, whether it's a pea-size.

8 CHAIRMAN GENCO: This is for the low dose
9 and this is for the higher dose.

10 DR. KATZ: The pea-size is no longer
11 there.

12 DR. BOWEN: No.

13 CHAIRMAN GENCO: It was taken out.

14 DR. BOWEN: Okay. It's still a concern in
15 various parts of the world over the chronic use of
16 fluoride toothpaste possibly, and underline possibly,
17 in being responsible for the alleged increase in the
18 prevalence of fluorosis. And I'm wondering whether a
19 more specific instruction is necessary on the size or
20 the amount of paste put on the brush for children.

21 CHAIRMAN GENCO: You know, as I read the
22 directions here, it really all relates to the fluoride

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1 issue in caries. But let me read through them.

2 DR. BOWEN: Okay.

3 CHAIRMAN GENCO: The next statement, see
4 the first bullet is adults and children six years of
5 age brush teeth thoroughly preferably after each meal
6 or at least twice a day or as directed by a dentist or
7 doctor. Second bullet, instruct children under age 12
8 years of age in good brushing and rinsing habits (to
9 minimize swallowing). And then third bullet,
10 supervise children as necessary until capable of using
11 without supervision.

12 And fourth bullet, children under age six
13 of age do not use unless directed by dentist or
14 doctor. So these, these all seem to be related to the
15 caries. How much do we have to get into. I meant
16 there's no, it doesn't appear to be anything specific
17 to the anti-gingivitis, anti-plaque effect.

18 DR. KATZ: At this point basically, part
19 of what we wanted was whether or not there are any
20 specific directions that need to be for the products
21 that we're looking at, which would be the anti-
22 gingivitis, anti-plaque.

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1 CHAIRMAN GENCO: Okay, not the
2 combination.

3 DR. KATZ: Not really the combinations
4 because the combinations would actually fall under
5 whatever other guides might already be there.

6 CHAIRMAN GENCO: Okay.

7 DR. KATZ: So that if there is a specific
8 directions from fluoride, then they would go back to
9 use the wording that is currently there for fluoride.
10 If there's something specific for anti-carries that
11 again would go back. So that when, right now the
12 question is really more specific to anti-gingivitis,
13 anti-plaque type of products.

14 CHAIRMAN GENCO: Okay, does anybody have
15 any suggestions for, that would be specific. I mean
16 we know already what I've read is going to be on there
17 or a variant of that.

18 DR. KATZ: A variant of that.

19 CHAIRMAN GENCO: So, is there anything
20 additional specific to the gingivitis. Peter.

21 MR. HUTT: I simply wanted to point out,
22 I have in front of me the monograph for anti-cavity

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1 toothpaste. And what you read, Bob, is identical
2 perhaps with a one or two word slight difference.
3 But it's identical to what is already required on
4 every anti-cavity, fluoride toothpaste for the higher
5 concentration, for the 1,500 PPM fluoride.

6 CHAIRMAN GENCO: For the single use then,
7 what would be the instructions. In other words, we
8 wouldn't, it wouldn't be this particular, these
9 directions wouldn't be on, let's say, well, wait a
10 minute. Is the stannous fluoride dentifrice also
11 anti-caries.

12 DR. BOWEN: Yes.

13 CHAIRMAN GENCO: So it would be. All
14 right. So for the anti-gingivitis dentifrice, it's
15 exactly what is here and the question is, is there
16 anything additional? Okay. Now let's go to the mouth
17 rinses. I don't have in front of me an instruction.
18 I don't have good direction for that, so we're really
19 working in an area of, with no precedent except the
20 ADA seal of approval product, not an FDA approved
21 product.

22 MR. HUTT: But there is, for an anti-

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1 caries treatment rinse product there is currently in
2 the monograph, in the CFR and if you would like me I
3 would be happy to read it. Adults and children six
4 years of age and older use once a day after brushing
5 your teeth with a toothpaste. This is for use,
6 obviously, under those circumstances. Vigorously
7 swish ten milliliters of rinse between your teeth for
8 one minute and then spit out.

9 Do not swallow the rinse. Do not eat or
10 drink for 30 minutes after rinsing. Instruct children
11 under 12 years of age in good rinsing habits to
12 minimize swallowing. Supervise children as necessary
13 until capable of using without supervision. Children
14 under six years of age consult a dentist or doctor.
15 That is what is currently used.

16 It could be used, not in hixie verba, but
17 it could be used as a model for the type of labeling
18 we're talking about.

19 CHAIRMAN GENCO: But it's directed to the
20 anti-caries effect. Also, some of those are specific
21 for anti-caries.

22 MR. HUTT: That is why I said it could be

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1 used as a model but not --

2 CHAIRMAN GENCO: Not verbatim.

3 MR. HUTT: -- not identically.

4 CHAIRMAN GENCO: Okay. From what you've
5 heard would you want to include or exclude any portion
6 of that or is it a good model?

7 DR. BOWEN: If I remember correctly, those
8 are all fluoride mouth rinses with no alcohol in them,
9 is that correct?

10 DR. KATZ: They are all fluoride mouth
11 rinses. It doesn't specify here about alcohol or not,
12 but it does specify that they are fluoride.

13 DR. BOWEN: And Listerine I think has it
14 on their label, a restriction pertaining to 12 year
15 olds. And I would feel comfortable, as they obviously
16 do, starting at that point with mouth rinses
17 containing significant amounts of alcohol. I'm not
18 particularly worried, as I indicated yesterday, to the
19 actives, I think their safety is so high. I would be
20 a little concerned about the amount of alcohol that is
21 potentially, could be swallowed.

22 CHAIRMAN GENCO: So that would be

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1 consistent with the indication too.

2 DR. BOWEN: Yeah.

3 CHAIRMAN GENCO: So the direction would
4 be, for adults and children over age 12 --

5 DR. BOWEN: That would be my feeling.

6 CHAIRMAN GENCO: -- use twice a day. This
7 was, the fluoride was one time a day. Do you have
8 some instruction?

9 DR. BARNETT: Actually there was a bottle
10 of Listerine floating around this morning. I don't
11 know if it's still here, but basically the directions
12 for use on the label correspond to the usage in our
13 clinical trials. Which is basically rinsing for 30
14 seconds with 20 milliliters twice a day and I think
15 the label says morning and evening.

16 DR. LISTGARTEN: I guess if we take the
17 directions for the fluoride rinse, the way it would
18 differ is the fluoride rinse is recommended to be used
19 after brushing. I'm not sure that this would apply
20 for the gingivitis product.

21 CHAIRMAN GENCO: Would it be instructive
22 for us to say that the directions would be based upon

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1 the clinical trials of the appropriate mouth rinse?
2 In other words, the mils per day, the times per day,
3 when --

4 DR. KATZ: Right. No, that would be
5 appropriate.

6 CHAIRMAN GENCO: Okay. Yes, Bill and then
7 Stan. With the caveat the 12 and older, that I think
8 we feel strongly about.

9 DR. KATZ: Okay.

10 CHAIRMAN GENCO: For use in adults and
11 children age 12 and above.

12 DR. BOWEN: Max raises an important point
13 that there is good evidence that if you don't rinse
14 after you use a fluoride toothpaste that you probably
15 enhance the clinical effectiveness. So there's a case
16 to be made for not using these immediately after tooth
17 brushing in contradistinction from using the
18 fluoridated mouth rinses immediately after rinsing.

19 So I would suggest any reference to after
20 tooth brushing be omitted. Simply use it twice daily
21 as the manufacturer suggests.

22 CHAIRMAN GENCO: Okay, so the manufacturer

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1 may suggest, for example, morning and evening use and
2 you'd like to go further and say, and furthermore, do
3 not use after brushing or rinsing with a fluoride
4 toothpaste. Because you may use it in the morning
5 after brushing your teeth and use it in the evening
6 after brushing your teeth. That's your point.

7 DR. BOWEN: And you would run the risk of
8 diluting the effect of fluoride. So I would not make
9 any reference to after tooth brushing. Simply say,
10 use it twice daily.

11 CHAIRMAN GENCO: Okay. Yes.

12 MR. SAXE: Bob.

13 CHAIRMAN GENCO: Yes.

14 MR. SAXE: There is, in the handout that
15 came from Bob Sherman or one of them on labeling, in
16 that are included some examples of submitted
17 directions. And there's a sentence in one of them for
18 rinse that might be considered. And it says, "the
19 rinse is not intended to replace regular brushing and
20 flossing". And I would suggest that perhaps this
21 would be a good addition to directions.

22 CHAIRMAN GENCO: Okay, anybody have any

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1 comments on that?

2 DR. LISTGARTEN: Yeah, I agree, I think
3 that's important. Some people may feel that a quick
4 rinse may be equivalent to brushing. I think that's
5 a good statement.

6 CHAIRMAN GENCO: What about the statement
7 of do not swallow, which is in the fluoride rinses.
8 Again, not used for ingestion, so to re-emphasize
9 that.

10 MR. SAXE: Particularly with alcohol and
11 young people, sure.

12 CHAIRMAN GENCO: Okay. So the
13 instructions, the specific instructions with respect
14 to milliliters, how many seconds and times per day
15 comes from the manufacturer based upon the test. The
16 additional are adults and children over age 12, do not
17 swallow and --

18 MR. SAXE: Rinse is not intended to
19 replace regular brushing and flossing.

20 CHAIRMAN GENCO: -- rinse not intended to
21 replace regular brushing. Any other? How about the
22 do not eat or drink? That's relevant to the fluoride

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1 and it's not really relevant to these anti-plaque,
2 anti-gingivitis. Any other elements of the
3 directions, Bob, that you think we should be concerned
4 with?

5 I think we've taken the advice not to mix
6 warnings and directions here, instructions and use.

7 DR. KATZ: For any of these ingredients
8 again that we've been looking at, products, are there
9 any other age restrictions other than for the
10 Listerine that you might have that we need to consider
11 on any of the products? I mean in terms of the
12 directions.

13 CHAIRMAN GENCO: So the use was from age
14 12 and above.

15 DR. KATZ: That's for Listerine, though.

16 CHAIRMAN GENCO: Right. For the mouth,
17 both mouth rinses. Listerine and CPC.

18 DR. KATZ: And CPC. And are there any
19 other restrictions for age that you might want to have
20 for a stannous fluoride?

21 CHAIRMAN GENCO: That means don't use in
22 children under age 12. You mean be more specific, not

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1 for use or use under --

2 DR. KATZ: Or for stannous fluoride as
3 well. Would that also be --

4 CHAIRMAN GENCO: Okay, the stannous
5 fluoride is, excuse me, is a dentifrice. And that was
6 the first discussion and that we were instructed by
7 the anti-caries dentifrice monograph and that has a
8 lot about age. I mean children under age six do not
9 use unless directed by a dentist. Supervise children
10 as necessary. Instruct children under age 12 and make
11 them swallow, all of that. That would not be relevant
12 to the Cepacol mouth rinse or the Listerine mouth
13 rinse.

14 The only age suggestion there was do not,
15 for use in adults and children over age 12. Unless
16 you feel more strongly and you want to make a do not
17 use in children under age 12 or something like that.

18 DR. BOWEN: I think the positive is
19 better.

20 CHAIRMAN GENCO: Okay. So the statement
21 that we discussed was for use in Adults and children
22 over the age of 12. Bill is suggesting that we also

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1 add, in addition to the do not use, not for use or use
2 only as directed by a dentist in children under age
3 12.

4 DR. BOWEN: I'd simply say, for use in
5 children above the age of 12.

6 CHAIRMAN GENCO: Okay. The positive
7 statement.

8 DR. BOWEN: The positive statement.

9 CHAIRMAN GENCO: Not the do not use.
10 Okay. Comfortable. Okay, anything else about the
11 labeling or the directions, excuse me.

12 MR. SHERMAN: I think that should cover
13 it.

14 CHAIRMAN GENCO: Okay, thank you. Well,
15 I think now we're down to the last item and that's the
16 calendar. I have to say that unfortunately I wasn't
17 planning on that meeting in October and I'm going to
18 have to check home, you know, to see what my calendar
19 is like. I have it here, but I'm not sure it's
20 complete for October. You know, there's certain
21 things happening. So we can do that and I would
22 recommend that everybody get it done Monday or Tuesday

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1 so that we can get this date and there was an
2 overwhelming feeling that we would like to stay or
3 have our meeting at the most elegant hotel in the city
4 of Washington.

5 (Laughter.)

6 CHAIRMAN GENCO: And possibly, if you
7 could put us up in the penthouse rooms, we'd
8 appreciate it.

9 (Laughter.)

10 DR. BOWEN: With appropriate per diem.

11 DR. D'AGOSTINO: Is that a motion?

12 MR. CANCRO: Second.

13 CHAIRMAN GENCO: And Bill said, it would
14 be nice if we had a Christmas bonus too.

15 (Laughter.)

16 CHAIRMAN GENCO: Well, I'd like to thank
17 Bob and Rhonda for organizing. Linda and Fred for
18 their help. I think they showed a lot of restraint
19 and we appreciate that too. And it's been a pleasure,
20 this three days working with all of you, the committee
21 and all. And I think over the years we've seen the
22 interaction with industry to be extremely productive

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1 and also NDMA.

2 And I'd like to thank everyone for their
3 hard work in preparing for this meeting. So look
4 forward to seeing you in October. Thank you again.

5 (Whereupon, the foregoing matter
6 was concluded at 11:10 a.m.)

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