

1 Dr. Nelson, do you have a response to  
2 that?

3 SKIP NELSON: As an ICU doc, I can't  
4 resist at least offering one consideration, even  
5 though age could be considered a continuous  
6 variable, one of the things you discuss is the  
7 importance of the uniformity of the population that  
8 you might enroll in a clinical trial. There's a  
9 significant difference between, say, a 4 year old  
10 and an 8 year old potentially in terms of airway  
11 anatomy. One is when you're 4, your cricoid  
12 cartilage is the narrowest part of your airway, when  
13 you're 8 it's your vocal cords, so that's why we use  
14 a round tube or a tube with a cuff when we intubate  
15 them.

16 So the question would be are there  
17 developmental differences that would make natural  
18 break points that would suggest that if you enrolled  
19 both a 4 year old and a 9 year old in the same  
20 trial, are they apples and oranges, independent of  
21 whether you consider age a categorical variable. So  
22 that's just something that would be worth  
0187

1 discussing.

2 RALPH D'AGOSTINO: Earlier when we were  
3 saying we could do adults and bring it down to all  
4 children, now we're dicing up the children which I  
5 think is a right discussion.

6 MARY TINETTI: Any of the pediatricians  
7 want to comment on that point?

8 Dr. Joad.

9 JESSE JOAD: Well a natural break point  
10 might be 3 years instead of, because 3 years and  
11 under is where viruses can cause bronchiolitis and  
12 croup and it's not usually considered the cutoff at  
13 2, it's usually considered a cutoff at 3. So  
14 there's an argument that it is truly different --  
15 the disease could be truly different in that age  
16 group versus others.

17 DENNIS BIER: You know, it seems to me  
18 if you have enough children, then there ought to be  
19 enough children to do this study. You know, with  
20 enough children in any age group from 2 to 12, then

21 you determine whether or not there's an age effect,  
22 it's a continuous variable. If there's not, well  
0188

1 there may be differences in anatomy and things, but  
2 they don't have any affect on the end point  
3 variables. If there are, then you find out, is it  
4 an anatomical thing, is it a different, different,  
5 you know, different viral, you know, infection or  
6 whatever.

7 MARY TINETTI: Jan.

8 JAN HEWITT: Yes, yesterday I saw some  
9 data related to P 450 metabolic profiles and poor  
10 metabolizing and extensive metabolizing in some of  
11 the ingredients, but not all, would the FDA along  
12 with the pk data consider more data along with the  
13 P 450 metabolic profiles of individuals  
14 particularly, for example, if Caucasians, 10 percent  
15 of them do not metabolize Dextromethorphan  
16 appropriately. As a parent I would probably want to  
17 know that data before administering the drug.

18 CHARLIE GANLEY: You know, I couldn't  
19 hear your voice, so if you could speak louder.

20 JAN HEWITT: Sorry, I'll just get  
21 closer. So along with the pk data, is the FDA or  
22 would the FDA consider more P 450 metabolic, I'm not  
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1 an expert in that area but it seems to me that I saw  
2 some of the drugs have data in 2D6 and 3A4 but not  
3 all the ingredients had a good profile of what that  
4 data was, so would they consider that as well was my  
5 question.

6 CHARLIE GANLEY: Well I think the, you  
7 know, the, generally when the, and I think the  
8 efficacy studies are done and, you know, other folks  
9 can weigh in, that I think there's sparse sampling  
10 done also in the efficacy studies.

11 The point I'm not sure about your  
12 question is that to me is you have to determine what  
13 is the safety profile related to an individual drug,  
14 so if it turns out that a poor metabolizer of  
15 Dextromethorphan doesn't tolerate the drug with  
16 regard to, you know, gets some dysphoria or  
17 something like that, well the, I think it's hard for

18 an individual to determine whether they're a poor  
19 metabolizer other than they get the symptom and  
20 generally we'll try to label products if, you know,  
21 there's a symptom that may occur because you're  
22 sensitive to the drug or you just don't metabolize  
0190

1 it. We try to characterize it by reporting what  
2 symptoms you may get and then the individual would  
3 on their own or their care giver on their own would  
4 make that determination.

5 I think it's the same thing that's  
6 applicable to the prescription side when a physician  
7 writes a prescription and the individual takes it  
8 home and they don't tolerate it, that there may be  
9 some, you know, there's huge inter-individual  
10 variation in drugs and adults so they're going to  
11 call you up and say, you know, I took this and, you  
12 know, I got terrible pains in my legs and I just  
13 don't tolerate it well. It's pretty much the same  
14 way for an OTC drug.

15 You try to characterize what the  
16 downside is and if it turns out that a drug is, you  
17 know, metabolized in such a way that it leads to  
18 such a serious adverse event and there's no way we  
19 can identify that population on an OTC label, it's  
20 not necessarily going to be an OTC drug.

21 MARY TINETTI: Okay. I'll move on to  
22 question number 2 related to safety. The safety  
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1 discussion in the petition focuses on cases of  
2 misuse, unintentional overdose and excessive dosing  
3 of over-the-counter drug and cold drug products.  
4 The petition does not specifically address the  
5 safety of OTC drug products for children under the  
6 age of 6 when used in accordance with the labeled  
7 instructions and under a physician's care.

8 Considering the widespread use of  
9 over-the-counter drug and cold products, over  
10 decades there are reported cases of serious adverse  
11 events. We are interested in understanding why  
12 these events happened and would like to be able to  
13 reduce the occurrence of preventable events.

14 And so the first part of that question

15 is really a discussion, aside from issues related to  
16 excessive dosing, please comment on any significant  
17 safety issues that can be identified when these  
18 drugs are used at the currently recommended doses  
19 and I presume implied in that question are also  
20 steps that can be taken to reduce, reduce those  
21 occurrences.

22 Dr. Calhoun.

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1 WILLIAM CALHOUN: So this actually goes  
2 to the question I asked yesterday afternoon, in  
3 looking at the safety database at least in the AERS,  
4 it appears that most of the serious adverse effects  
5 were largely related to overdose, but the occurrence  
6 of seizures was not necessarily associated with  
7 overdose and the concern there is that unlike  
8 transient tachycardia or unlike transient loss of  
9 consciousness, a seizure, even if afebrile seizure  
10 may, at least in my understanding, may convey some  
11 longer term risk of recurrent seizures.

12 And so I guess I would like to see that  
13 seizure database cleaned up a little bit so that we  
14 can perhaps sort out those that are attributable to  
15 febrile seizure from those that could, in fact, be  
16 related to an adverse interaction between viral  
17 infection and the administration of these agents.

18 MARY TINETTI: I think that's an  
19 excellent point, particularly seeing the seizure  
20 occurrence happened across all the different  
21 products and you wouldn't necessarily expect it. I  
22 think that's an excellent idea.

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1 Dr. Parker.

2 RUTH PARKER: Just to speak  
3 significantly to any safety issues broadly, I would  
4 say that I have concern about the multiple  
5 ingredients and the average person's ability to  
6 understand and decode what these ingredients are and  
7 what they're treating. So in my own quick, quick  
8 way I'm thinking about the nose, you know, it can be  
9 runny, it can be stuffy, it can be congested, it can  
10 be itchy and which ingredient targets which one of  
11 those. I think most people know that we advertise

12 and market problems and so those are what are on the  
13 labels.

14 The problem, the symptom, you know, what  
15 you have, and so I think as a safety issue it is how  
16 these are presented on the shelf and how the average  
17 person is able to look at the problem that's  
18 marketed or advertised on the label and  
19 self-diagnose in order to adequately treat the  
20 condition that they, you know, that they go to the  
21 store in order to purchase.

22 So I'm concerned with the combination

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1 products very specifically and the ability to  
2 understand and when you, when you break that down  
3 into the details, I use it all the time in teaching  
4 residents about over-the-counters where I litter the  
5 table with products and ask them to pick which one  
6 do you use for what and they can't do it. And those  
7 are all licensed physicians.

8 MARY TINETTI: Dr. Griffin.

9 MARIE GRIFFIN: Yeah, I think the, the  
10 data, I think we have to remember with the data we  
11 have on safety are case reports and so there's a  
12 little bit of circular reasoning. If a child dies  
13 suddenly and they have high blood levels of these  
14 components, we attribute it to the components and if  
15 they don't, then we don't. So that, therefore, we  
16 end up with saying, well, these deaths are because  
17 of misuse.

18 I think we really don't know, like the  
19 febrile seizures, we don't really know if these  
20 components cause seizures or if they're just  
21 temporarily associated with taking these drugs.

22 So I think the level of data we have on

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1 safety is really pretty bad and maybe one thing the  
2 Committee could do is deliberate on what level we  
3 think we need.

4 Do we want to say 1 in 1,000 children  
5 with a serious adverse event is too high or where do  
6 we stand so that when we're thinking about efficacy  
7 studies, I think we also have to think about what  
8 power we need to rule out serious adverse events for

9 drugs that are used for symptoms and don't save  
10 lives or prevent disability.

11 MARY TINETTI: Dr. Cohen.

12 MIKE COHEN: Yeah, I'm not sure that  
13 this is the right place or the right time that is to  
14 talk about this, but it just seems to me that if  
15 we're doing the efficacy studies, et cetera, that we  
16 were talking about before, perhaps we could also  
17 look at comprehension of the labeling, product  
18 selection, the dosing devices, et cetera, et cetera,  
19 there as part of this question.

20 It just seems reasonable because we  
21 really don't know and we heard lots of testimony  
22 yesterday about all the product variation,

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1 800 products, brand name extensions, et cetera, that  
2 does seem to be causing confusion based on reporting  
3 to the AERS program.

4 MARY TINETTI: So you're stating in  
5 terms of the safety issue that the, that the  
6 labeling and the multiple ingredients is  
7 contributing to the confusion which then contributes  
8 to the safety?

9 MIKE COHEN: And misuse, yes.

10 MARY TINETTI: Misuse, yes, and dosing.  
11 So lack of dosing standards and the labeling.

12 MIKE COHEN: Right, yeah.

13 MARY TINETTI: Thank you.

14 Dr. Rosenthal.

15 JEFF ROSENTHAL: I just have a point  
16 regarding item number A having to do with safety  
17 issues at least within the current labeling and in  
18 my, I just want to make the point that in my  
19 pediatric cardiology practice we uniformly recommend  
20 that patients avoid this group of medications  
21 because of an observation that kids with rhythm,  
22 heart rhythm disorders are more likely to have these

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1 provoked by at least some of the agents within these  
2 cocktails and I think, you know, specifically  
3 looking at safety in subgroups like cardiac patients  
4 would be important.

5 MARY TINETTI: Thank you.

6 Dr. Garofalo.

7 ELIZABETH GAROFALO: Thank you, Betsy  
8 Garofalo. I wanted to make two comments, one was to  
9 the question about seizures and say of course that I  
10 concur that this could be a confounded data set, in  
11 other words, the children are ill and potentially  
12 have the fever and have the seizure, but I certainly  
13 agree it's worth going back and trying to parse that  
14 out, but it may essentially be impossible, it's  
15 pretty common, of course, in children and that, you  
16 know, simple febrile seizures don't, in general,  
17 have sequelae.

18 That said, I also wanted to comment on  
19 the combination products because of course there are  
20 a lot of them out there and there is some apparent  
21 concern that there is a higher safety risk with  
22 those, but I think in looking back at the data from  
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1 what we were presented and what was in the briefing  
2 information, there's such a high percentage of use  
3 that it's sort of comparable to the percentage  
4 associated with combination products in the serious  
5 events that we saw. I was trying to find the spots  
6 where I would see that, but it didn't, it wasn't a  
7 disproportionate number of serious events reported  
8 from the combination products as far as I could  
9 tell.

10 MARY TINETTI: Dr. Hennessy.

11 SEAN HENNESSY: Sean Hennessy. Because  
12 these products are available over the counter,  
13 they're not captured in administrative claims data,  
14 so doing a large administrative claims data studies  
15 is going to be impossible.

16 Prior to Ibuprophen being approved for  
17 OTC use in kids, there was a large simple trial done  
18 to assess the safety primarily and I think that  
19 would be a good idea for any of these products as  
20 well.

21 MARY TINETTI: Dr. McMahon.

22 ANN McMAHON: Ann McMahon. A couple of  
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1 different points that people have been making, one  
2 of them about febrile seizures. In the review that

3 was done in the Office of Safety and Epidemiology,  
4 it does parse out to the extent that it was possible  
5 how many of these cases were associated with fever.

6 Now, you know, if they say they were  
7 associated with fever, that's noted. If they don't  
8 say they were associated with fever, they may or may  
9 not have -- fever may or may not have been present,  
10 but to the extent that it was possible it was sorted  
11 out in the, in the document that was written in  
12 support of the, of the comments that were made  
13 yesterday.

14 Now as far as the, a safety study and  
15 it, as, as people have alluded to with the passage  
16 of surveillance data, there's just so many  
17 limitations. It's also very, very unclear exactly  
18 how large the safety study would need to be to be  
19 really very useful and so I think it would be, it  
20 would be helpful to hear peoples' input on, on how  
21 such a study would need to be done if it, if it were  
22 to be done.

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1 As, as you had mentioned, it's, these  
2 drugs aren't going to be picked up in administrative  
3 databases, so, you know, sort of the model of a post  
4 marketing type study, safety study, how would that  
5 be done.

6 MARY TINETTI: We have to break for  
7 lunch, I'm just going to, so hold your comments to  
8 after lunch, we're just going to end up right now  
9 with Dr. Rappley.

10 LAURA MARCIA RAPPLEY: I'd like to just  
11 add to the comment about how we consider what rate  
12 of adverse events we consider acceptable or we are  
13 willing to tolerate, not only is that in balance  
14 with the efficacy of the medication, but I think we  
15 need some sense of the risk of not treating and I  
16 know that that's not an easy thing to examine in a  
17 rigorous way, but I think we all have the sense that  
18 colds and coughs due -- or coughs and runny noses  
19 due to the common cold are innocuous and  
20 self-limited and don't lead to other more serious  
21 problems, but I'm not sure we have real data about  
22 that.



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1 And so as we look at the risk of  
2 treating, we need to balance that also with the risk  
3 of not treating.

4 MARY TINETTI: Thank you, I think we are  
5 actually going to reconvene in 45 minutes, a quarter  
6 to 1 and the Committee will be eating in the same  
7 room.

8 And remember, no, no discussing the  
9 topics during lunch, thank you.

10 (Lunch recess taken 11:56 a.m.)

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2 AFTERNOON SESSION

3 MARY TINETTI: We're going to, we're  
4 going to get started again, so if everybody.

5 Hi, Dr. Rappley, we're just going to get  
6 started again for the afternoon session and welcome  
7 back to everyone.

8 Dr. Ganley has asked us to go back to  
9 further clarify an issue related to extrapolation,  
10 so I'm going to finish I think with question 2 and  
11 then we will go back and re-address some of the  
12 extrapolation issues.

13 So you recall, we were discussing the  
14 issue related to safety and were there any  
15 significant safety issues that could be identified  
16 when these drugs are used at the currently  
17 recommended doses. And some of the issues that have  
18 already been brought up are trying to disentangled  
19 for the high rate of seizures, is there a way to

20 disentangle drug effect from, for instance, the  
21 febrile illnesses.

22 There was an issue raised that the

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1 multiple ingredients and the present labeling was  
2 confusing, we felt that that could lead to lack of  
3 difficulty with safety. Lack of standardization of  
4 dosing. And dosing devices, devices are directly  
5 addressed.

6 So, if there's any other issues related  
7 to safety that aren't covered there, that's fine,  
8 otherwise we can move on to the next part which I  
9 think is probably the important part is what actions  
10 might we recommend.

11 Before we do that, are there any other  
12 specific safety issues that have not yet been raised  
13 that we want to include?

14 Dr. Cnaan.

15 AVITAL CNAAN: The single issue, Avital  
16 Cnaan, the single issue that was raised several  
17 times and that is the dosing by age rather than by  
18 weight for children who are small for age, I think  
19 this is a risk that should be considered.

20 MARY TINETTI: So your point is the lack  
21 of dosing by weight in --

22 AVITAL CNAAN: Yes.

0204

1 MARY TINETTI: Okay, thank you. Okay,  
2 we'll move on to the next part then is obviously,  
3 hopefully will lead directly from our previous  
4 discussion is what actions do you recommend the  
5 Agency consider in order to reduce the occurrence of  
6 these adverse events related to factors that might  
7 be associated with the drug or the age group such as  
8 variations in metabolism, variations in weight.

9 So, again, what actions might we  
10 recommend for the FDA to reduce safety issues again  
11 with usual usage in, with indications stated.

12 Dr. Joad.

13 JESSE JOAD: Did we skip the additional  
14 safety data I think? I mean I was interested in  
15 Dr. D'Agostino's 29,000 patients that he can look at  
16 in a safety study. We didn't really discuss that.

17 That's above that one you just read.

18 MARY TINETTI: Well I don't think we  
19 skipped it, I mean I think -- so we mentioned I  
20 think one of the actions might be is to review,  
21 review the safety data that already exists, is that  
22 your point?

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1 JESSE JOAD: Maybe I just misunderstood,  
2 but I thought they were asking us what we thought,  
3 what kind of data we thought we needed other than  
4 the data that we already have.

5 MARY TINETTI: Well I think that would  
6 probably come under an action item, so we can --

7 JESSE JOAD: Okay.

8 CHARLIE GANLEY: Well, Dr. Tinetti, it  
9 would be helpful to have more discussion because the  
10 industry had already said that they would be willing  
11 to do additional safety studies, so we need to  
12 understand a little more what that means.

13 MARY TINETTI: I think that's what I  
14 just said, that's what we're going to discuss  
15 though, the safety, the additional safety data.

16 CHARLIE GANLEY: Oh, okay.

17 MARY TINETTI: That's what's proposed  
18 and I said that's what we were going to be  
19 discussing, so if there were additional safety data  
20 that we felt were needed that was part of an action  
21 item.

22 Does anybody want to address that point?

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1 Dr. Griffin.

2 MARIE GRIFFIN: Well I think, I just  
3 want to say again, I think it would be helpful if we  
4 specified what level of serious adverse event we  
5 want to be able to detect because I think that the  
6 current safety data can inform us about that and I  
7 don't think re-reviewing case reports are going to  
8 tell us anything about drug outcome relationships.  
9 So we need denominator based data, so I think I  
10 would like to hear other peoples opinion on how,  
11 what level of safety we think we need for these  
12 products.

13 MARY TINETTI: I think even before that

14 is the fact that you'd need the data, that we need  
15 actual rates which is presently lacking. We're  
16 actual lacking both a numerator and the denominator  
17 data, so I think we propose the actual rate data for  
18 adverse events are needed.

19 Does anybody want to comment upon what,  
20 if any, rate would be acceptable once we are able to  
21 obtain those safety data? It's a little bit hard to  
22 do that without knowing, again, I mean it's hard to  
0207

1 know what safety -- what rate of adverse effects  
2 you'll accept until you know what the benefit is.

3 MARIE GRIFFIN: Yeah, but you know the  
4 benefit is not going to be saving lives or, you  
5 know, the benefits going to be symptomatic, so there  
6 may be some level even if we got good symptomatic  
7 relief, we may say that some level of serious  
8 adverse events are unacceptable.

9 I think in this country we made a  
10 vaccine policy based on a tolerance for a very teeny  
11 level of adverse events in children, so we changed  
12 from oral polio vaccine to an activated polio  
13 vaccine because of 8 to 12 cases of vaccine are  
14 associated with polio. I think the ethical  
15 considerations for vaccines are different, but I  
16 think that we have to think about whether serious  
17 adverse events, things that can kill children or  
18 cause permanent harm are acceptable and at what  
19 level.

20 MARY TINETTI: So assuming that these  
21 studies that we have just proposed, that they do  
22 show some effectiveness for symptoms because  
0208

1 obviously if there's no effective symptoms, it's a  
2 moot point, what rate of adverse effects and that  
3 probably depends upon what adverse effects we're  
4 talking about, so maybe you, would you like to make  
5 a specific proposal, Dr. Griffin, for us to address?

6 MARIE GRIFFIN: Well, I mean things that  
7 we consider serious adverse events, things that  
8 would land a child in a hospital or cause death or  
9 permanent disability.

10 To me, 1 in 1,000 would be pretty high,

11 but I guess I would think it would be nice to have  
12 trials that could at least rule out that level of  
13 risk.

14 MARY TINETTI: I think we may want to  
15 separate out how the data get obtained I think for  
16 trial -- I mean actual clinical trials would have to  
17 be enormous to find that, but regardless of how the  
18 data are obtained, what, what death rate is, I would  
19 think 1 in 1,000 would be absurdly --

20 MARIE GRIFFIN: I'm saying serious  
21 adverse events.

22 MARY TINETTI: Let's start with death, I  
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1 mean it's -- we heard yesterday that no death is  
2 acceptable. Can we put a number on that or is that  
3 beyond the scope of what we can -- we know that if  
4 there is effectiveness there's nothing that's  
5 completely safe, I mean that's, that's a standard  
6 that would be wonderful but it's not obtainable. Do  
7 we want to put a number on that or?

8 ANN McMAHON: So I just want to clarify  
9 that one of the things that we're talking about here  
10 is safety data on appropriately dosed.

11 MARY TINETTI: Yes, this is all  
12 appropriate dosed.

13 ANN McMAHON: Right.

14 MARY TINETTI: This is all appropriately  
15 dosed.

16 Dr. Daum.

17 ROBERT DAUM: So Dr. Griffin's comments  
18 inspired me to recall a vaccine safety workshop  
19 which was held at FDA, I'm very good -- very bad at  
20 remembering retrospectively how many years ago it  
21 was, but I'd say about seven where this kind of  
22 issue was addressed, is what kind of frequency of  
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1 adverse event did the vaccine community want to pick  
2 up and study condition trials where every patient  
3 was watched and monitored and enrolled prospectively  
4 and then what kind could be, would we tolerate being  
5 picked up in much larger enrollee numbers post  
6 marketing trials.

7 And so I would wonder if we shouldn't

8 think about the analogy and I'm certainly not one of  
9 the statisticians at this table, but the analogy of  
10 thinking about the studies that are going to look at  
11 efficacy when they get powered and designed  
12 correctly to also be, have some thought assigned to  
13 looking at common major and not so major side  
14 effects and then recognize some frequency that the  
15 study designers would impune -- impart, excuse me,  
16 to the study design that would detect what I would  
17 call common side effects.

18 And then I think that the only way to  
19 realistically capture rare, rare side effects is a  
20 post marketing trial. I don't think you can do that  
21 in study conditions without bankrupting the system.

22 So I think we have to think about it two  
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1 different ways and I would propose that the common  
2 ones be rolled into the study design for the  
3 efficacy that we've said this morning is important  
4 and that the less common ones be done in a post  
5 marketing surveillance kind of fashion.

6 MARY TINETTI: Okay.

7 ROBERT DAUM: I can't give you the  
8 numbers because I'm not a study design guy, but  
9 there's a guy who can.

10 MARY TINETTI: Dr. Garofalo.

11 ELIZABETH GAROFALO: Actually I'm just  
12 going to echo that exactly, I think in the  
13 controlled trials you have a control group so you  
14 can get your common adverse events, but you're not  
15 going to see the rare adverse events in that  
16 setting, that duration, et cetera. And so we have  
17 so much data already, perhaps not at the doses that  
18 we'll end up with, but we have so much data over  
19 many, many years of surveillance that, you know,  
20 again trying to do something that's a longer  
21 controlled trial for safety doesn't make any sense  
22 to me. So I'm just echoing what was just said.

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1 MARY TINETTI: Okay, thank you.

2 Anything to add to that? Dr. Goldstein.

3 GEORGE GOLDSTEIN: In the interests of  
4 time, no, but there are 40 years of data presented

5 by --

6 MARY TINETTI: I think we've heard that,  
7 thank you.

8 Dr. Rappley.

9 LAURA MARCIA RAPPLEY: Yes, we looked at  
10 this issue around the sudden death associated with  
11 stimulant medications and it was very helpful for  
12 our panel to look at the, the best estimates we have  
13 of sudden unexplained death in young people and  
14 just, so just to give a frame of reference, that, we  
15 think the best study is probably Lieberson in 1996  
16 and it showed a background rate of 1.3 to 8.5 per  
17 100,000 person years.

18 So if we think of that as a background  
19 rate for an unexplained death in young people, that  
20 would be a reference point and if we say that  
21 there -- no cases of death associated with these  
22 meds are tolerable, then it would be something  
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1 higher than that background rate, I would think.

2 MARY TINETTI: Okay. Dr. Shrank.

3 WILL SHRANK: Will Shrank, so  
4 Dr. Hennessy appropriately noted before that a lot  
5 of this post marketing surveillance work would be  
6 especially difficult in this population because  
7 over-the-counter medications aren't collected, but  
8 many of these drugs are prescribed at times, so  
9 there may be, it, I don't know what the proportions  
10 are, but probably not an inconsequential proportion,  
11 so I don't know if it's impossible to do the post  
12 marketing surveillance work.

13 MARY TINETTI: Dr. Newman.

14 TOM NEWMAN: Yeah, I just think one of  
15 the issues that comes up is that it's going to be  
16 very, very hard for any of these deaths to know  
17 whether it was due to the medication or not, so in  
18 that way it's very different from the Polio vaccine  
19 where if you got the Polio from the live virus  
20 vaccine, you knew, okay, this is someone who was  
21 affected by this, this medication.

22 All of these kids will, many of them  
0214

1 will have fevers and URIs and things which can

2 predispose to other, you know, bad things and so,  
3 you know, my, my thought would be something quite a  
4 bit less than 1 in a million but it would be with a  
5 knowledge that probably the way to answer the  
6 question would be some sort of case control study of  
7 sudden deaths and try and see whether use of these  
8 medications is -- in the absence of overdose, use of  
9 these medications is independently associated with  
10 the outcome, independent of the symptoms they were  
11 designed to treat.

12 RICHARD NEILL: Richard Neill. It seems  
13 like what we're dancing around a bit is the fact  
14 that efficacy, which hasn't been shown in these  
15 entities, may exist, needs to be studied, hasn't  
16 been demonstrated yet, but if it exists it's likely  
17 to be measured in terms of things like numbers of  
18 sneezes in a day, we get two, and so let's add up  
19 whether millions of sneezes is worth a life and if  
20 not a life, then are millions of sneezes prevented  
21 worth lifetime seizure disorder or some other  
22 potential adverse event.

0215

1 And I make that comment in the context  
2 of what I think is pretty striking and quite  
3 frankly, although subject to interpretation, pretty  
4 safe data here. These seem relatively safe, not  
5 perfectly safe, and I think it's an honest question  
6 whether we balance the rare, difficult to measure,  
7 extremely untoured, undesirable event or whether we  
8 ought to instead design side effect safety trials  
9 that allow a parent to ask is it worth cutting down  
10 on nasal stuffiness if what I'm doing is exchanging  
11 it for headache, constipation, whatever, fill in  
12 potential side effects here.

13 And I'll be honest, I don't know the  
14 answer to that but I do think that it adds a second  
15 layer of difficulty in answering the safety question  
16 which is no less difficult than the more important  
17 that you already mentioned, you know, what's the  
18 efficacy ratio there, how much effectiveness for  
19 safety do you get.

20 MARY TINETTI: Dr. Joad.

21 JESSE JOAD: I am arguing -- sorry, I am



22 arguing for large safety trial -- official ones like  
0216

1 they did for Almeterol, that sort of thing where  
2 people are, because of the reasons we're talking  
3 about, the reasons to give the drug are just  
4 symptomatic relief and the concerns we have are  
5 serious, very serious and I think we can't,  
6 shouldn't go by just voluntary reporting.

7 MARY TINETTI: Dr. McMahon.

8 ANN McMAHON: Oh, I was, I was just  
9 going to make the point that if it's a post, large  
10 post marketing trial, it doesn't mean that it has to  
11 not have a comparator group and I'm not saying what  
12 that should be or whether there should be other  
13 study designs, but that's just an observation.

14 MARY TINETTI: Dr. D'Agostino.

15 RALPH D'AGOSTINO: We did in this panel  
16 actually see a study of phenylpropylamine that was a  
17 case control study, basically a case control study  
18 but done in a very rigorous manner, one may argue  
19 with the small number of events, but that's going to  
20 be the case here also.

21 So there are designs that one can  
22 actually do and I think, you know, with the idea of  
0217

1 the efficacy studies, the efficacy studies just  
2 aren't going to be big enough to really get a big  
3 database on safety and I just don't think we can  
4 design them, we can't keep people on placebos over  
5 and over again, so I think the efficacy studies will  
6 be limited in terms of their safety data, but if we  
7 do enough combinations, I guess we'll be running  
8 enough studies so we may end up getting a big  
9 database.

10 I think the things like the case  
11 control, the prospective, would practices, bringing  
12 in practices and then naturally registering -- not  
13 registry as such, but that type of notion that large  
14 numbers of individuals come in and I do think also  
15 that it's going to be very important to have sort of  
16 underlying background rates or control groups in  
17 order to be able to figure out what's really going  
18 on.

19 But these things, you know, we did it  
20 with PPA or it was done with PPA, I didn't do it,  
21 but it was done with PPA and phenylpropylamine and I  
22 think there's, there's lots of different ways of  
0218

1 doing it and if there's a big enough set of, what do  
2 you call them, pediatricians and practices that can  
3 be brought on board, which it sounds like that's  
4 really possible, I think that one could work out  
5 some very clever designs.

6 MARY TINETTI: Let me ask the FDA, could  
7 we require and actually request a safety study that  
8 was a case controlled design or a large trial?

9 Is that something, the level of  
10 recommendations we can make or is this now you're  
11 just wanting to hear from us what are some of the  
12 pros and the cons of the different approaches?

13 JOHN JENKINS: We are always welcome to  
14 your recommendations.

15 It might be useful for you to know how  
16 we approach this for new drugs that go through the  
17 BPCA PREA process, meaning not these old drugs that  
18 have been on the market for a long time. Even in  
19 places where we ask for efficacy data in children,  
20 the database is not often more than a few hundred  
21 people because -- children, because we already have  
22 the knowledge we have from the adult data and we are  
0219

1 generally looking for common adverse events in the  
2 pediatric trials, not rare adverse events.

3 That mirrors how we do drug development  
4 in general. We don't expect to be able to detect  
5 rare adverse events in the controlled clinical  
6 trials. We usually rely on post marketing  
7 experience and as people have pointed out, we have a  
8 lot of post marketing experience with all of these  
9 agents. You can argue whether the reporting is what  
10 you would like, but you could also probably take  
11 some understanding of what the rare serious adverse  
12 reactions of these drugs are from what you have from  
13 the post marketing reporting data.

14 I don't know what our experience has  
15 been in, you know, large, many thousands of safety,

16 patients of a safety trial in pediatrics. There are  
17 some examples of that in the adult arena, I'm not  
18 sure I'm aware of any, you know, many thousands of  
19 patients safety trials in pediatrics.

20 Even with those large studies, your  
21 ability to rule out rare, truly rare adverse events  
22 is very limited. If you have a, even a 20,000

0220

1 patient study, it isn't going to help you very much  
2 if a truly rare event occurs 1 in 100,000 --

3 RALPH D'AGOSTINO: You're talking about  
4 1 in 1,000 versus a relative risk of 1.5 or  
5 something like that with a 20,000 subject study.

6 What I was suggesting is in terms of the  
7 practices is a sort of post marketing, but a more  
8 rigorous follow-up on them as, you know, really  
9 getting the identification of who's taking the drug  
10 and what happened, and if anything happens as  
11 opposed to waiting until this is spontaneous  
12 reporting.

13 I agree with you in terms of trying to  
14 put a safety study together that has treatment A  
15 versus treatment B, it's not going to, it's going to  
16 be very hard, if not impossible, to pull a study  
17 like that together.

18 The case control studies are much more  
19 possible and then you have to worry about what the  
20 controls are, but these designs are out there and  
21 it's quite possible to be able to get it. What  
22 about like a large, you know, a Kaiser Permanente

0221

1 type of setting and things of that nature.

2 MARY TINETTI: I'm not sure we want to  
3 get to that, we're going to be here for the next  
4 three weeks otherwise.

5 RALPH D'AGOSTINO: No, but things are  
6 possible.

7 MARY TINETTI: Things are possible. I  
8 think one of the things I'm really hearing about and  
9 I think the phenylpropylamine is a very good  
10 example, although it wasn't the FDA, I know it was  
11 done in the context of some other clinical trials  
12 and it came from investigators pushing it, but it

13 does show that rigorous case control designs can,  
14 can be effective and it is something I think the FDA  
15 should think about.

16 I want to get beyond the actual, some of  
17 these safety studies to other issues that relate to  
18 actions that the Agency can consider, but before I  
19 do that, did you have another comment, Dr. Griffin?

20 MARIE GRIFFIN: I mean there are, Kaiser  
21 Permanente did do a 35,000 children study for  
22 pneumococcal vaccine, Rotavirus vaccine is being  
0222

1 studied in 75,000 children and some of those are  
2 safety, because of safety and some of them are for  
3 efficacy.

4 I think the question about estrogen in  
5 women was resolved because of a very large clinical  
6 trial and it may be beyond the scope of the  
7 manufacturers to do this, but it may be in the  
8 interests of the public and the Government to  
9 support these kind of trails for a very, very common  
10 condition for drugs that are used by half of the  
11 population. You know, I think we ought to think  
12 about what, what we would really like to see. I'm  
13 not saying that we need to make the manufacturers do  
14 this.

15 MARY TINETTI: Dr. Hennessy.

16 SEAN HENNESSY: So McNeill sponsored a  
17 study out of the Sloan Epidemiology Unit that Sam  
18 Letcho was a principal investigator of where they  
19 randomized about 27,000 children to receive either  
20 Ibuprofen or Acetaminophen and that was a kind of  
21 large safety randomized trial that I was thinking  
22 of.

0223

1 MARY TINETTI: Would you like, well we  
2 may come back to that because I want, the question  
3 is whether or not at this point you just want some  
4 recommendations or you actually want a vote on some  
5 of these proposals, but I think we'll, we'll come  
6 back to that in a minute.

7 But see if there's any other, other  
8 actions that we think the FDA should take to enhance  
9 safety.

10 Dr. Parker.

11 RUTH PARKER: I think looking at  
12 standardized dosing devices as a means to decrease  
13 variability for consumers, patients who choose  
14 self-select to take these products is a critical  
15 step. So standardization of the dosing devices and  
16 also a serious look at an attempt to standardized  
17 the dosing regimen because currently it varies by,  
18 by product and by manufacturer and I think when  
19 you're asking people to understand subtle  
20 differences that are a part of labeling, that these,  
21 these -- the existence of the variability is a root  
22 cause for misunderstanding, misinformation and  
0224

1 mistakes, so I think taking a very serious look at  
2 the best possible, what language should it be, very  
3 specifically, and then how to communicate that in a  
4 standard way.

5 Let me also say from a cultural  
6 standpoint that the closer you get to standardizing  
7 the dosing device and the label, you pay -- you pave  
8 the path to being able to provide that information  
9 in other languages. Currently if you try to  
10 translate subtle differences that appear and do a  
11 direct translation into other languages, it's much  
12 harder than if you had a standardized language and  
13 then you just try to translate it.

14 So as manufacturers look to whether or  
15 not it makes good sense to provide label  
16 instructions for over-the-counter medications in  
17 another language for increased access to the  
18 population, I think having that standardized  
19 language across manufacturers and that comes with  
20 the Federal oversight is a really important safety  
21 issue.

22 MARY TINETTI: So you're proposing both  
0225

1 standardized dosing devices and standardizing  
2 wording?

3 RUTH PARKER: Yes.

4 MARY TINETTI: Thank you. Okay.  
5 Anything else?

6 MIKE COHEN: Well I agree with

7 Dr. Parker with the standardized dosing devices and  
8 other comments, too. Also standardizing the units  
9 of measure. There's confusion sometimes between  
10 teaspoons and tablespoonful, for example, probably  
11 metric volume would be a good way to do it.

12 But also, I think, just the labeling of  
13 the products, themselves. We need to do a better  
14 job at getting the ingredients I think on the front  
15 label panel, when you're --

16 MARY TINETTI: We're going to be  
17 addressing label specifically, so if you can hold  
18 those comments because they're going to be very  
19 important.

20 MIKE COHEN: Sure.

21 MARY TINETTI: Thank you.

22 Dr. Ganley.

0226

1 CHARLIE GANLEY: Just to get some  
2 clarity from Ruth, are you talking about, for  
3 example, concentrations should be standardized and  
4 things like that, so it should be if you're going to  
5 buy a diphenhydromine in a liquid suspension, we  
6 should, because the monograph doesn't include that  
7 now, we should state it has to be this  
8 concentration, is that what you're saying?

9 RUTH PARKER: Yes, I think variabilities  
10 in the concentration is a root cause of  
11 misunderstanding, misconceptions and that is an  
12 actionable item that could decrease variability and  
13 lead to less misunderstanding and less confusion and  
14 medical errors in the outpatient setting. Yes.

15 MARY TINETTI: That was nice and clear,  
16 thank you.

17 RUTH PARKER: I've said it before.

18 MARY TINETTI: You said it well.

19 The next question is a yes/no question  
20 for us, so hopefully this will be a little more  
21 straightforward.

22 Should dosing devices be required with

0227

1 liquid formulations, yes or no. Do we need any  
2 discussion on that before we can vote?  
3 Standardized, standardized wording, standardized

4 dosing, standardized concentration, standardized  
5 wording and standardized unit of measure.

6 Did I miss anything? Okay.

7 Dr. Hennessy.

8 SEAN HENNESSY: So this isn't an area  
9 that I've given much thought, so I think I'd ask  
10 Mike Cohen who probably has given some thought to  
11 this to help bring me up to speed.

12 MIKE COHEN: Yeah, this is Mike Cohen.  
13 There is, as I was saying a little bit earlier,  
14 there is confusion between the various dosing  
15 devices and some things like cups, for example, that  
16 you can literally take a cup from one item and place  
17 it on a totally different drug without even, you  
18 know, without the family even recognizing it and  
19 then it might have differing units of measure when  
20 they go to measure that specific medication that it  
21 was placed upon.

22 You know, as I said a little bit

0228

1 earlier, too, confusion between dosing units, the  
2 teaspoon and milliliters, et cetera.

3 SEAN HENNESSY: Is there any downside to  
4 requiring product specific measuring devices?

5 MIKE COHEN: I can't think of any. You  
6 know, if it was by volume, for example, that would  
7 even take into account the product concentration,  
8 so, I mean the dosing would be different.

9 MARY TINETTI: Amy Celento.

10 AMY CELENTO: Amy Celento, in relation  
11 to this I feel very strongly that the product name  
12 should be tied directly to the device, to the  
13 syringe, to the cup, whatever, I think it's linked  
14 to Dr. Parker's point about clarity and really  
15 making it fool-proof and then you could come up with  
16 ways to communicate that multi-culturally, as well.

17 So it should be tied to the actual  
18 medication.

19 MARY TINETTI: I'm not quite sure what  
20 you mean, I mean if we're talking about  
21 standardization, it would be across all the  
22 different products. I'm not, can you clarify what

0229

1 you mean by --

2 AMY CELENTO: Well you may have a  
3 product that has a specific dosage but a different  
4 formulation, a different medication has a different  
5 dosage and people think oh, I'll just use that  
6 little cup, all the cups look the same, so now you  
7 standardize our calibrating the cup but it could be  
8 different for a completely different medication, am  
9 I correct about that.

10 RUTH PARKER: That's what we've got to  
11 get beyond, so that just to be very specific, so  
12 that when I open up my medicine cabinet and I  
13 realize that, you know, we have bought six different  
14 formulations because I've got five kids and, you  
15 know, they get sick and different people buy it, I  
16 can't have five different cups that mean, you know,  
17 that go with different things because I've lost  
18 those cups, you know.

19 We really have to get down to figuring  
20 out from the patient perspective, the consumer  
21 perspective how we, so this is a clinical trial, let  
22 me get specific, looking at which standard dosing  
0230

1 device we actually want to use and why, with  
2 cognitive testing of it to show that people, the  
3 people who use it understand it and then we have to  
4 use it across products and when you have a  
5 concentration, they have to be -- you know, we may  
6 end up with needing two different concentrations, I  
7 hope not 10, and dosing devices that match the  
8 concentration, but we want to keep it to as few as  
9 possible to limit the options of variability for a  
10 consumer and limit the choices for making a mistake.

11 MARY TINETTI: So to clarify, right now  
12 I probably have five different brands and five  
13 different devices and I pick up whichever one I use  
14 and so I use a different device from a different  
15 product. You're saying it should be that should not  
16 happen, regardless of what product I use, regardless  
17 of what formulation, the calibrations, the wording  
18 should be exactly the same.

19 Okay. Dr. Cohen.

20 MIKE COHEN: I was just going to give



21 another example, Mike Cohen. At one time we had a  
22 product issue with the dropper and the dosage was  
0231

1 expressed in terms of droppers full. And what a  
2 dropper full is to different individuals, you know,  
3 things can change, some people would draw the liquid  
4 all the up to the top, almost to the bulb of the  
5 dropper whereas others would, you know, draw it up  
6 three-quarters of the way, for example, and if it's  
7 a concentrated product, that really could make a  
8 difference, so, just changing that to volume and  
9 then expressing the dose as volume really would help  
10 that situation.

11 MARY TINETTI: Okay, thank you.

12 So what I'm hearing then and Dr. Cohen  
13 and Dr. Parker, correct me if I'm wrong with the  
14 wording of this, should dosing devices that have  
15 standardized wording, standardized volumes across  
16 products and across formulation be required with  
17 liquid formulations? Is that? Okay.

18 Did you have a comment before we vote?

19 LEON DURE: Yes, Leon Dure, Birmingham,  
20 and I, I just, I mean I agree with you completely in  
21 principal, but I just want to get practical because  
22 in, say, for example, anticonvulsants, if you're  
0232

1 treating an infant, a one month old with an  
2 anticonvulsant and then have the same, you know,  
3 have a child 15 years old on the same anticonvulsant  
4 with uniform volume or concentration, et cetera, I'm  
5 not sure about the device and how that's going to  
6 look because the volume is going to be very  
7 different, so is this going to be, I mean that's a  
8 prescription drug, I understand, but I'm not quite  
9 sure I see that. I agree I would love, I would love  
10 to see it, but I don't know if I can envision it  
11 right now.

12 RUTH PARKER: That's because it needs to  
13 be developed.

14 No, this is very serious, these, this  
15 needs to be done in clinical research trials. This  
16 needs to be done very carefully with cognitive  
17 psychology testing of what the words are and it has

18 to be done in conjunction with the people who are  
19 going to use the product, not with those of us who  
20 talk about what it's going to look like, but with  
21 the people who are actually going to use it,  
22 ensuring, back to label comprehension and that kind  
0233

1 of thing that the people who are going to use it  
2 understand it in a way that meets our, our level of,  
3 of acceptability.

4 MARY TINETTI: Two more comments.  
5 Dr. Newman and then Dr. Bier.

6 TOM NEWMAN: Yeah, I just want to  
7 clarify what we're voting on, are we voting on what  
8 we want all devices, whether they're cups, syringes  
9 or droppers, to be labeled in milliliters or are we  
10 saying we only want one kind of device, because I  
11 think we may need more than one kind of device.

12 MARY TINETTI: We're not talking about  
13 one kind of device, I think we're talking about  
14 standard --

15 TOM NEWMAN: So just they'll all be  
16 measured in milliliters and --

17 MARY TINETTI: Yes -- well we haven't  
18 said that it's going to be milliliters, we've just  
19 said that it's going to be standardized. We haven't  
20 commented upon what type of devices.

21 TOM NEWMAN: Okay, well I would vote for  
22 milliliters, but the other thing that would be  
0234

1 really nice if they could do it would be to say, you  
2 know, if you have a 20-pound kid, then your dose of  
3 medicine is going to be 2.5 ml or something  
4 regardless of what medicine it is, that would be  
5 enormously simplifying.

6 MARY TINETTI: I think that's the point.  
7 Dr. Bier and Dr. Daum and then we will vote.

8 DENNIS BIER: Yeah, I'm not sure we can  
9 get all the way there, but we can probably get  
10 90 percent of the way there compared to what there  
11 is today and we have other examples, you know, we  
12 have the insulin syringe, for example, which for  
13 quite a few years was standardized across people so  
14 we didn't have mistakes, I mean it's a similar type

15 of thing.

16 The doses, the doses in the vial were  
17 standardized, the syringes were standardized, so we  
18 have examples of using this.

19 ROBERT DAUM: Just briefly, Robert Daum,  
20 is the context of this question in studies that are  
21 to be designed or in existing products that could be  
22 sold?

0235

1 MARY TINETTI: I think the context of it  
2 is what would be required for anything that was on  
3 the market.

4 ROBERT DAUM: Existing products.

5 MARY TINETTI: Assuming, assuming those  
6 existing products continue after today, yes.

7 One quick comment, we really need to  
8 move on.

9 GEORGE GOLDSTEIN: Quick comment, just  
10 to raise a question, what does the rigid and  
11 complete standardization do to efforts to innovate,  
12 to create better, safer, more useful packaging and  
13 labeling and choices? I think that needs to be kept  
14 in mind as well.

15 MARY TINETTI: Good point, thank you.  
16 Okay, I think we're ready to vote.

17 Does everybody remember the question,  
18 should dosing devices that are standardized in  
19 wording and dosing be required with liquid  
20 formulations.

21 All in favor?

22 CHARLIE GANLEY: Can I, can we just vote

0236

1 on C as it's written first, whether they should be  
2 required and then we can take your comments back as  
3 to standardization and, because that was --

4 MARY TINETTI: Why wouldn't you want us  
5 to vote on the question as we've already --

6 CHARLIE GANLEY: Well that's the next  
7 one, the next one is the question on calibration and  
8 standardization.

9 MARY TINETTI: That's a, that's a little  
10 bit different point.

11 CHARLIE GANLEY: But it's, the easy one

12 is does everyone think we should require, you know,  
13 dosing devices where there's a need for a, if  
14 there's a --

15 MARY TINETTI: Well we can do this in  
16 two points, we can do yes or no, but I think we're  
17 going to vote on the wording that we've just come up  
18 with. But we can do, first of all we can do the  
19 yes/no.

20 So all in favor of whether dosing  
21 devices should be required with liquid formulations,  
22 all in favor, yes? Keep your hands up and we'll

0237

1 start with Dr. Rappley.

2 LAURA MARCIA RAPPLEY: This is Marcia  
3 Rappley, I'm voting yes.

4 MARY TINETTI: Okay, and if we can start  
5 with Dr. Mike Cohen, are you first? Yes --

6 WILLIAM CALHOUN: Michael Calhoun?

7 MARY TINETTI: Calhoun, I'm sorry.

8 Calhoun.

9 WILLIAM CALHOUN: Bill Calhoun. Yes.

10 TOM NEWMAN: Tom Newman, yes.

11 MIKE COHEN: Mike Cohen, yes.

12 JESSE JOAD: Jesse Joad, yes.

13 PRESCOTT ATKINSON: Prescott Atkinson,

14 yes.

15 ROBERT TAYLOR: Robert Taylor, yes.

16 MARIE GRIFFIN: Marie Griffin, yes.

17 JAN HEWITT: Jan Hewitt, yes.

18 WILL SHRANK: Bill Shrank, yes.

19 RALPH D'AGOSTINO: Ralph D'Agostino,

20 yes.

21 BEN CLYBURN: Ben Clyburn, yes.

22 RUTH PARKER: Ruth Parker, yes.

0238

1 MARY TINETTI: Mary Tinetti, yes.

2 DENNIS BIER: Dennis Bier, yes.

3 AVITAL CNAAN: Avital Cnaan, yes.

4 RICHARD NEILL: Richard Neill, yes.

5 AMY CELENTO: Amy Celento, yes.

6 ROBERT DAUM: Robert Daum, yes.

7 LEON DURE: Leon Dure, yes.

8 JEFF ROSENTHAL: Jeff Rosenthal, yes.

9 SEAN HENNESSY: Sean Hennessy, yes.

10 MARY TINETTI: Okay, any nos?

11 Any abstentions? Okay.

12 Do you want to -- go ahead.

13 DARREL LYONS: So question 2C, for the  
14 record, 22 yes, zero no, zero abstain.

15 MARY TINETTI: Okay, so then we are  
16 going to vote on the wording that Dr. Cohen and  
17 Parker have suggested with, that is requiring  
18 standardization.

19 All in favor?

20 LAURA MARCIA RAPPLEY: This is Marcia  
21 Rappley, I vote yes.

22 MARY TINETTI: Okay. We'll start over

0239

1 on this side this time.

2 SEAN HENNESSY: Sean Hennessy, yes.

3 JEFF ROSENTHAL: Jeff Rosenthal, yes.

4 LEON DURE: Leon Dure, yes.

5 ROBERT DAUM: Robert Daum, yes.

6 AMY CELENTO: Amy Celento, yes.

7 RICHARD NEILL: Richard Neill, yes.

8 AVITAL CNAAN: Avital Cnaan, yes.

9 DENNIS BIER: Dennis Bier, yes.

10 MARY TINETTI: Mary Tinetti, yes.

11 RUTH PARKER: Ruth Parker, yes.

12 BEN CLYBURN: Ben Clyburn, yes.

13 RALPH D'AGOSTINO: Ralph D'Agostino,  
14 yes.

15 WILL SHRANK: Will Shrank, yes.

16 JAN HEWITT: Jan Hewitt, yes.

17 MARIE GRIFFIN: Marie Griffin, yes.

18 ROBERT TAYLOR: Robert Taylor, yes.

19 JESSE JOAD: Jesse Joad, yes.

20 PRESCOTT ATKINSON: Prescott Atkinson,  
21 yes.

22 MIKE COHEN: Michael Cohen, yes.

0240

1 TOM NEWMAN: Tom Newman, yes.

2 WILLIAM CALHOUN: Bill Calhoun, yes.

3 MARY TINETTI: Any nos? Any  
4 abstentions?

5 DARREL LYONS: For the record, it's 22

6 yes, zero no, zero abstain.

7 MARY TINETTI: So next question does  
8 have to do with the devices, is should all dosing  
9 devices, and perhaps we've already addressed this,  
10 cups, spoons, syringes, bear only the calibrations  
11 corresponding to and identified with the same unit  
12 of measure for the specifics doses described on the  
13 package labeling.

14 So I think we've pretty much already  
15 addressed that. Do we need to vote on that to --

16 RUTH PARKER: Just from the standpoint  
17 of the standardization allows for an educational  
18 campaign with really teaching to the test.

19 If, if what's on the test, taking your  
20 medicine correctly, then what you're able to do is  
21 by having one thing that you're trying to use and  
22 learn how to use correctly, you're more likely to

0241

1 get the answer correctly on the test.

2 So this thing of the subtle  
3 variabilities just to re-enforce as we now know a  
4 source of error.

5 MARY TINETTI: Okay, thank you, the last  
6 part of this question is comment on whether there  
7 are other formulations that will assist caregivers  
8 in providing the correct dose. Again, other than  
9 what we've already discussed, an example was given,  
10 pre-measured drugs.

11 Any other formulations or ideas?

12 Dr. Cohen.

13 MIKE COHEN: Yeah, I'm assuming they  
14 mean, for example, a unit dose package or a unit of  
15 use package that's pre-measured, say 5 milliliters  
16 or something like that. I guess I would have  
17 somewhat of a problem with that because people might  
18 use a full dose instead of a half dose or even in a  
19 hospital situation we sometimes see medication  
20 errors where, you know, that type of mistake is made  
21 or one of the containers of two that are supposed to  
22 be administered are returned to pharmacy, for

0242

1 example, and unadministered, so I don't, I don't  
2 understand why that would be necessary.

3 MARY TINETTI: Any other comments?

4 Okay. Yes.

5 SKIP NELSON: I guess I don't want to  
6 presume that the standardization vote necessarily  
7 answers the question about the linkage between  
8 calibrations on the dosing device and the package  
9 labeling as an interim step because what that would  
10 also -- what that would mean is that you could not,  
11 in fact, exchange a device from bottle to bottle if  
12 the unit was different.

13 So I, it's, it's not clear which way  
14 people could go on the answer -- on to this  
15 question, sort of C question 2.

16 MARY TINETTI: So you want us to vote on  
17 that? We can certainly do that.

18 SKIP NELSON: Well it's just not clear  
19 to me what the implications would be because if this  
20 device is only linked with that product in that  
21 package which would eliminate one of the mistakes I  
22 think it was brought out in the presentation

0243

1 yesterday about, you know, having 15 different  
2 measures on the one device, you could not in fact  
3 take it to another bottle so would people then use  
4 it anyway or would they realize they can't use it  
5 and then discard it, which would be the good action  
6 instead of the bad action.

7 So it's not clear how that would work  
8 out.

9 RUTH PARKER: I think the intent would  
10 be to look at how many different concentrations are  
11 required from a dose standpoint for the various  
12 products that were proved to be effective, okay.

13 And so, you know, it's kind of hard to  
14 put this out there, but let's assume that there's a  
15 suspension that's more concentrated, I don't really  
16 know without sort of looking at pieces that we don't  
17 really have right now, but let's assume you might  
18 need two different concentrations, then there would  
19 be, and I'd hope there wouldn't be five, I don't  
20 know, but I'm saying let's hope there would be two,  
21 for everything that's the more concentrated you  
22 might need a measuring device that always works with

0244

1 that one because of the units that you would need to  
2 calibrate doses on it.

3 If you were able to get by with one and  
4 through cognitive testing found out that one will  
5 serve the purpose of all, I think on the end of that  
6 you would probably have less errors, but you might  
7 find that you have to have two. What we don't want  
8 is 10 and what the device actually looks like for an  
9 older age, it may be a cup, for a younger age it  
10 might be a syringe. That would be developed in a  
11 clinical trial.

12 MARY TINETTI: Dr. Hennessy.

13 SEAN HENNESSY: Sean Hennessy, so  
14 question that subsection C, or the sub question  
15 under C says should all dosing devices bear only  
16 calibrations corresponding to and identified with  
17 the same unit of measure, I would say yes and that  
18 should probably be milliliters, but the second part  
19 of that says for the specified dosages described on  
20 the package labeling, for that I would say no.

21 So, for example, if the doses in the  
22 package are 2.5 milliliters, 5 milliliters or 10

0245

1 milliliters, I would think that it should still have  
2 increments at 3 milliliters and 4 milliliters  
3 because another medicine may require a dosage of  
4 three and four.

5 So this is a two-part question to which  
6 I think the first part I would vote yes and the  
7 second part I would vote no.

8 MARY TINETTI: All right, sounds like we  
9 have to go back and clarify that.

10 I guess I'm not quite sure what, what  
11 point for the specific doses described on the  
12 packaging label, I guess I'm not sure what point  
13 you're making here, Dr. Hennessy, what --

14 SEAN HENNESSY: So if it was, you know,  
15 an oral syringe that was graduated in milliliters, I  
16 think that's fine but I think that the second part  
17 of this question says, for the specific dosages  
18 described in the package labeling, so to me that  
19 means that if there's no 4 milliliter dose described



20 in the package labeling, then the oral syringe that  
21 comes with it should not be, have a mark at  
22 4 milliliters

0246

1 MARY TINETTI: I see, okay, fair enough.

2 That's clear, okay.

3 That's probably worth actually voting on  
4 to get on the, the record because it actually does  
5 tie in to what we have already voted on.

6 Yeah.

7 AMY CELENTO: Amy Celento. This goes  
8 back to my point about potentially having some sort  
9 of link to the actual product name and the device,  
10 you know, because it's not Tupperware where one lid  
11 fits everything that's square. So, you know, that's  
12 where I think you give the opportunity for consumers  
13 to not get it wrong.

14 MARY TINETTI: Well, again, under our  
15 recommendation that wouldn't happen because it  
16 would -- wouldn't matter what with the product  
17 formulation, but I understand presently that would  
18 be an issue.

19 Dr. Joad and Dr. Cohen.

20 JESSE JOAD: Jesse Joad. I would argue  
21 that we should standardize everything in milliliters  
22 and say no more teaspoonful or tablespoonful at all

0247

1 and that there should be a standard syringe that's  
2 10 ml and then maybe some other standard, and  
3 everything marked so that it totally can go back and  
4 forth between products and --

5 MARY TINETTI: I think we already voted  
6 on that. Yes, we've already voted on that.

7 JESSE JOAD: But that takes care of  
8 Dr. Hennessy's concern.

9 MARY TINETTI: Right. Right. Right.  
10 Okay. Okay.

11 So I think we're probably, right, if we,  
12 if we really do take what we've already voted on,  
13 then this question becomes a moot point.

14 That being said, do you want us to vote  
15 on this? Okay, thank you.

16 I think we will, did we have anything

17 else. Anybody else?

18 JOEL SCHIFFERBAUER: Dr. Tinetti, could  
19 you discuss 2B further? I don't think we heard  
20 enough discussion or any discussion on that, the  
21 misdosing and availability of OTC.

22 MARY TINETTI: I think that's what  
0248

1 raised the question about the, the standardization  
2 issue, but does anybody else have any other comments  
3 on the contribution of misdosing to the overall  
4 safety profile and how should this affect their  
5 availability as over-the-counter products?

6 I mean I think there's pretty compelling  
7 evidence that there's been a lot of misdosing,  
8 that's part of what the discussion has been so I  
9 guess it addresses the question of availability.

10 CHARLIE GANLEY: Yeah, let me just,  
11 yeah, let me just, it's just not a dosing device  
12 type issue, it goes back to the original petition  
13 where there are misdosing occurring and overdosing  
14 occurring with these products and because that is  
15 happening, that's not sufficient to allow them to  
16 continue marketing if we don't have sufficient  
17 efficacy, okay.

18 And so given that, if that's the  
19 standard and, you know, there's misdosing with  
20 prescription drugs and OTC drugs and other areas,  
21 too, that it, it's a conceptual thing is well how  
22 does that effect availability because we're

0249

1 essentially going to say that some products may not  
2 be available simply because there's misdosing.

3 Now if we're moving a drug from  
4 prescription to over-the-counter, we'll often do  
5 consumer behavior studies because we do care about  
6 misdosing and people need to understand the label  
7 and, you know, the consequences of getting it wrong  
8 can be problematic, but here in this situation we're  
9 trying to understand what is the relationship  
10 between the petitioner's argument and the requests  
11 regarding availability.

12 MARY TINETTI: Any comments?  
13 Dr. Gorman.

14 RICHARD GORMAN: The presentation by  
15 industry and again echoed by Dr. Temple this morning  
16 seem to indicate that the highest chance for  
17 misdosing was when there was no dosing information  
18 available on a label, so it would seem to me that if  
19 we were going to talk about reducing misdosing, that  
20 anything that the product is marketed for should  
21 have dosing information on the label.

22 MARY TINETTI: Okay. Thank you.

0250

1 I think, I think what I'm hearing that  
2 the FDA would like some discussion on is the fact if  
3 there is any, does misdosing and the possibility of  
4 misdosing preclude availability over the counter and  
5 your point's well taken that, that all drugs are  
6 going to have some element of misdosing, and is that  
7 a big enough issue here apart from everything else  
8 that it should preclude their availability, is that,  
9 is that your point?

10 CHARLIE GANLEY: Right, and also it gets  
11 back to how do you fix situations where serious  
12 events are occurring and you know there's, there's  
13 40,000 or more deaths a year in automobile accidents  
14 and on face value that's a terrible number, but you  
15 have to actually look at well why did that occur,  
16 half the cases are because they don't wear seat  
17 belts or, you know, seat belts weren't worn in half  
18 the cases, there's alcohol involved and text  
19 messages, so it's not the question of changing the  
20 availability of automobiles, it's the changing of  
21 how do we, you know, what you do to prevent those  
22 and, you know, in Maryland now there's a, you have

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1 to wear a seat belt, otherwise you can get a ticket,  
2 okay, so there's measures that were taken to try to  
3 adjust that.

4 And so that, that's what it's sort of  
5 getting at here is from a, from that type of  
6 approach, you know, to me it's well how do you fix  
7 the problem rather than just identifying the  
8 problem.

9 MARY TINETTI: I think that's the  
10 sentiment I'm hearing around the table here, I'm not

11 hearing any sentiment that the misuse is sufficient,  
12 that that in and of itself should be a reason for  
13 them being off, not over the counter, but rather are  
14 there things that we can do to make the use safer I  
15 think is the sentiment that I'm getting.

16 And does anybody else want to speak to  
17 that or have any other sentiment? If it's the same  
18 sentiment, we don't have to repeat it but if you  
19 have anything else you want to say.

20 LEON DURE: Well, no, Leon Dure, I mean  
21 I guess is this, I understand your question but I  
22 mean this is perhaps not the venue because the

0252

1 problem with misdosing in the under 2 is is that for  
2 most people there is no dose, so it isn't the same  
3 thing as other types of drugs where there may be an  
4 accepted dose.

5 MARY TINETTI: Okay. Dr. Bier.

6 DENNIS BIER: Dennis Bier, you know,  
7 we've talked about a variety of things,  
8 standardizing the dosing instrument and stuff but  
9 there are all -- and we have heard about many  
10 others, I mean the things that deal with the  
11 extended labeling, you know, multiple drug products  
12 and all of these things, reducing every one of those  
13 is going to contribute to safety and I think that  
14 should be the goal here.

15 MARY TINETTI: And I think we'll be  
16 extensively discussing labeling and multiple  
17 ingredients and I think those will both be very big  
18 issues.

19 Okay, let's go back to the question of  
20 extrapolation that the FDA asked us to clarify a bit  
21 further and I think the issue there had to do with  
22 extrapolation and so we've already voted that it's

0253

1 not appropriate to extrapolate from adults to  
2 children.

3 I think the question now that we're  
4 asked to comment on further, is it appropriate to  
5 extrapolate within children from, we've now said  
6 from the, let's say, for instance, the 2 to 12 year  
7 old down to the 2 year old or vice versa.

8 I think to address that we probably need  
9 to clarify the ages again and I hate to bring that  
10 up again because it's a, there are, there really are  
11 no designations that anybody and everybody's going  
12 to agree upon, but the designation -- the ages we  
13 have now are less than 2 and 2 to less than 12, so I  
14 propose that we, we keep those and the question is  
15 is it appropriate to, I guess it's nap time, to  
16 extrapolate, let's begin, from the 2 to less than  
17 12 year old to the -- is this, is that appropriate.

18 Will that help you, Dr. Ganley, is that  
19 sufficient?

20 CHARLIE GANLEY: I think it could be a  
21 more, a general question in that there may be, you  
22 know, if, if they come back with a study that shows  
0254

1 that there's efficacy in 6 to 11, is there a  
2 situation where you would extrapolate down to 2 to 5  
3 or vice versa? If they did a study in 2 to 5 year  
4 olds and showed that there was efficacious, are you  
5 going to automatically assume then through  
6 pharmacokinetics that 6 to 11 would be fine because  
7 you already have data on adults, okay.

8 So it's more to help us.

9 MARY TINETTI: Could you be clearer what  
10 question you'd like us to address, because I mean  
11 this could be worded in a lot of different ways and  
12 there's a lot of different age ranges, so.

13 CHARLIE GANLEY: Well I think a general  
14 question would be is, is the question that we had,  
15 is there ever a situation in people where you would  
16 extrapolate within the childhood population being  
17 less than 12, okay, and then if there's a yes, for  
18 them to just say this is where I think it may be,  
19 may be possible, okay.

20 MARY TINETTI: Could I propose that  
21 perhaps, because I think I've heard a lot of  
22 sentiment the under 2 is very different. Is it,

0255

1 would it be reasonable to say is it appropriate to  
2 extrapolate within children other than the less than  
3 2?

4 CHARLIE GANLEY: That's fine.

5 MARY TINETTI: Would that be  
6 appropriate. Okay. Can we vote on that, then, all  
7 in favor, okay.

8 LEON DURE: Are we just talking about  
9 cold medicine?

10 MARY TINETTI: Yes, yes. Where have you  
11 been the last two days?

12 LEON DURE: No, no, you said is there  
13 ever a situation.

14 MARY TINETTI: No, no, we're only  
15 talking cold. We're only talking cold.

16 Yes, Dr. Cnaan.

17 AVITAL CNAAN: Within the context, and  
18 thank you for that comment, within the -- within the  
19 context of cold and cough related to cold, I don't  
20 see the need for extrapolation from any age group to  
21 any age group because it is the common cold and we  
22 can answer the question well and directly.

0256

1 MARY TINETTI: Dr. Calhoun.

2 WILLIAM CALHOUN: Bill Calhoun. So you  
3 actually asked two different questions, one was an  
4 interpolation question, actually, if you have data  
5 in 2 to 6 and data in adults, that's actually an  
6 interpolation which probably scientifically is a  
7 little more justifiable than an extrapolation, so  
8 were you --

9 CHARLIE GANLEY: Yeah, I, so there would  
10 be situations where you're, you know, we call it  
11 interpolation but it is an extrapolation, also.  
12 It's -- interpolation in my view still falls under  
13 extrapolation -- you know, it's a subset of  
14 extrapolation.

15 You may not agree with that, but I  
16 still, you're extrapolating data from one population  
17 to another. Your data may be better in that you  
18 feel more comfortable because you're covering both  
19 ends of the spectrum and whatever variable -- well  
20 in this case it's age.

21 MARY TINETTI: Okay. So I think the --  
22 yes, Dr. D'Agostino.

0257

1 RALPH D'AGOSTINO: Ralph D'Agostino, but

2 are we saying that, is the contrast to that these  
3 companies should always in children do studies from  
4 2 to 12, including 2 to 12? I mean what's the  
5 alternative. If we say no, then is that what we're  
6 saying they should do, they should always have 2 to  
7 12?

8 CHARLIE GANLEY: Well if your answer is  
9 that there should never be extrapolation, then it's  
10 essentially saying that the population enrolled in  
11 the clinical efficacy study is 2 to 12.

12 If you say yes, I think in certain  
13 circumstances it could be -- well what is that  
14 circumstance.

15 MARY TINETTI: Okay, so the question  
16 under discussion or under vote hopefully is is it  
17 ever appropriate to extrapolate in the children over  
18 the age of 2 data I guess within -- from one group  
19 of children to another group of children?

20 Is that, because we've already said it  
21 was not appropriate to extrapolate from adults, so  
22 it's really within children, right? Is it ever

0258

1 appropriate to extrapolate, so --

2 TOM NEWMAN: For colds, for colds.

3 MARY TINETTI: For colds, for people  
4 over the age of 2. Okay.

5 So I guess the question is is it ever  
6 appropriate, those who think it is ever appropriate  
7 to extrapolate data within children for those over  
8 the age of 2 for colds.

9 ROBERT TAYLOR: Clarification, what kind  
10 of data, efficacy, safety?

11 MARY TINETTI: Efficacy, we've already  
12 decided that they need to have efficacy data.

13 Is anybody in favor of extrapolation  
14 within children? Okay, all in favor, raise your  
15 hand.

16 Okay. Dr. Calhoun, do you want to --

17 WILLIAM CALHOUN: Yeah, Bill Calhoun,  
18 yes.

19 MARY TINETTI: Mary Tinetti. Yes.

20 All those say no?

21 RUTH PARKER: Ruth Parker, yes.

22 LAURA MARCIA RAPPLEY: This is Marcia  
0259

1 Rappley, I'm voting yes.  
2 MARY TINETTI: Okay.  
3 Nos? Dr. Newman.  
4 TOM NEWMAN: Tom Newman, no.  
5 MIKE COHEN: Mike Cohen, no.  
6 PRESCOTT ATKINSON: Prescott Atkinson,  
7 no.  
8 JESSE JOAD: Jesse Joad, no.  
9 ROBERT TAYLOR: Robert Taylor, no.  
10 MARIE GRIFFIN: Marie Griffin, no.  
11 JAN HEWITT: Jan Hewitt, no.  
12 WILL SHRANK: Will Shrank, no.  
13 RALPH D'AGOSTINO: Ralph D'Agostino, no.  
14 BEN CLYBURN: Ben Clyburn, no.  
15 DENNIS BIER: Dennis Bier, no.  
16 AVITAL CNAAN: Avital Cnaan, no.  
17 RICHARD NEILL: Richard Neill, no.  
18 AMY CELENTO: Amy Celento, no.  
19 ROBERT DAUM: Robert Daum, no.  
20 LEON DURE: Leon Dure, no.  
21 JEFF ROSENTHAL: Jeff Rosenthal, no.  
22 SEAN HENNESSY: Sean Hennessy, no.

0260

1 MARY TINETTI: Any abstentions?  
2 DARREL LYONS: For the record, the vote  
3 was 4 yes, 13 no and zero abstentions.  
4 MARY TINETTI: We're missing some  
5 people.  
6 DARREL LYONS: 4 yes, I'm sorry, 15 --  
7 18 no.  
8 MARY TINETTI: Oh, you said --  
9 DARREL LYONS: I said 18 no.  
10 MARY TINETTI: All right. Thank you.  
11 Could you move on?  
12 DARREL LYONS: For the record, Darrel  
13 Lyons, for the record again, there was 4 yes, 18 no  
14 and zero abstains.  
15 MARY TINETTI: Thank you, okay.  
16 I believe we are finished with question  
17 2 and we can move on to question 3, which is based  
18 on the discussions regarding efficacy and safety,



19 are there age groups for which ingredients should  
20 not be used right now, i.e., should they be  
21 disallowed for any particular age group, if so,  
22 which age groups and which ingredients.

0261

1 Any discussion? Dr. Hennessy.

2 SEAN HENNESSY: Sure, so which age  
3 groups, I would say everyone under the ages of 12,  
4 and which ingredients, I would say all the  
5 ingredients being discussed today.

6 MARY TINETTI: So you're saying as of  
7 today, those drugs should no longer be allowed for  
8 anyone under the age of 12.

9 SEAN HENNESSY: Given that there's no  
10 evidence of efficacy of the drugs and there's  
11 evidence of harm of the drugs, yes.

12 MARY TINETTI: Any other discussion?

13 RUTH PARKER: I think this was the one  
14 where I had written down to here ask what are the  
15 options, because it seemed like under this you  
16 referred to this as being a question where there was  
17 going back to a rule-making or are there other  
18 options and I'm just trying to understand what --

19 CHARLIE GANLEY: Well I think this gets  
20 back to one of the requests from the petitioner to  
21 make some immediate statement as to, you know, to  
22 the public regarding that and so I think that's what

0262

1 it's trying to capture, you know, whether we can do  
2 some -- you know, what you recommend under an  
3 administrative procedure is a different issue, I  
4 can't answer that today. You may all vote that they  
5 should go away today, but under administrative  
6 procedures that may not be sufficient.

7 And so, but it, it may be that you say,  
8 well, for two years and less we just don't think  
9 that anyone should be recommending the use of these,  
10 yet but from 2 to 12, you know, we are, you know,  
11 going to have to, you know, because of either the  
12 benefit/risk assessment for those, you know, various  
13 children older than 2, that it's sort of nebulous  
14 whether it's, you know, going to cause, it's an  
15 imminent hazard type of thing where, you know, we

16 just, these are just so bad we need to take them off  
17 the market.

18 It's interesting where, you know, where  
19 everyone acknowledges that these events are really  
20 rare, a lot of it's related to misdosing and that,  
21 but they need to have some statement or some,  
22 something from the FDA that we have to immediately  
0263

1 do something right now.

2 And again, it's just to give us a sense,  
3 I don't know from the Administrative Procedures Act  
4 whether we, what we can do and how fast we can do  
5 things, but I would like to get a sense from the  
6 Committee of what they think because you know the  
7 possibilities is if you say these shouldn't be  
8 available tomorrow and there's a way that we can do  
9 it and we decide that that's a reasonable way to go,  
10 you're not going to have any, potentially, cough,  
11 cold allergy products for children recommended under  
12 12 years of age and you have to know that's what the  
13 consequences is.

14 And, you know, the question also here is  
15 there's been a lot of extrapolation carried on on  
16 the OTC products and also on some of the  
17 prescription products because, for example,  
18 Pseudoephedrine, you know, has not been studied in  
19 children, whether it's prescription product or not,  
20 there is a determination that we already know what  
21 Pseudoephedrine doses is in youngsters and it was  
22 based on extrapolation, so this will have a greater  
0264

1 impact on prescription drugs and OTC drugs. So you  
2 need to understand the consequence of your vote  
3 here.

4 MARY TINETTI: Dr. Daum.

5 ROBERT DAUM: So, unless I misremembered  
6 something I heard this morning, this is Robert Daum  
7 from the University of Chicago, I think we said this  
8 morning that we don't believe there is demonstrated  
9 efficacy for these drugs and I hope we all are  
10 talking about these drugs correctly, it might be  
11 useful to look at the list at some point during this  
12 discussion, under 12 years of age and if that's

13 true, then it seems to me it would be internally  
14 consistent -- inconsistent, internally inconsistent,  
15 we shouldn't do it to use these drugs any longer in  
16 children under 12. If there is no demonstrated  
17 efficacy, why would we say we should use them.

18 MARY TINETTI: Well I think the point is  
19 there's a couple of different things is usually when  
20 immediate action happens it's because of more  
21 concern about harm than lack of efficacy, if I'm  
22 paraphrasing, number one, and number two is the  
0265

1 discussion was, was not 100 percent that they were,  
2 that we had evidence that they weren't effective, is  
3 that we lacked the evidence of the effectiveness  
4 which is why we're recommending clinical trials.

5 The question is is while these trials  
6 are taking place, should they be available or should  
7 they not be available and for different age groups I  
8 think is the practical issue at hand.

9 ROBERT DAUM: So if I could respond to  
10 that, the question is worded, it says based on the  
11 discussions regarding efficacy, and the discussions  
12 I've heard regarding efficacy is that there's none  
13 demonstrated and if that is true, then I can't  
14 support using these agents --

15 MARY TINETTI: Lack of evidence of  
16 efficacy is not evidence of lack of efficacy.

17 ROBERT DAUM: I understand that, but I  
18 think that someone pointed out on the other side of  
19 the table this morning, people sitting around who  
20 have a scientific background and scientific  
21 integrity and you have to demonstrate the efficacy.

22 MARY TINETTI: Fair enough, so I think  
0266

1 as we do the vote, I think we'll be talking about  
2 the ingredients and the age groups and that could  
3 certainly be, be a basis for that.

4 ROBERT DAUM: Could you clarify before  
5 you move on, I'm sorry, what, what the words these  
6 ingredients means.

7 MARY TINETTI: I think we're referring  
8 to the ingredients that we're working, we're  
9 addressing, which are the decongestants, the first

10 generation antihistamines, the, and the  
11 antitussives, is that -- and the expectorants are  
12 the four classes.

13 RUTH PARKER: The other concern I have  
14 is the same point that comes up, this is for use of  
15 cough and cold symptoms associated with the common  
16 cold, so you get back to the consumer and their  
17 self-selection about the, you know, what they're  
18 choosing the drugs for and we did not look at the  
19 data or talk about the implications of this for lack  
20 of access, for allergic rhinitis in that same age  
21 group.

22 So, you know, when I hear, you know, not  
0267

1 available for 12 and under for cough and cold, I'm  
2 assuming that's for cough and cold, that someone's  
3 self-diagnosis is related to the common cold as it's  
4 described to them as they approach a shelf, I'm just  
5 trying to --

6 MARY TINETTI: Well I mean practically  
7 speaking it would be hard to have them on the market  
8 for one and not the other. I mean I think when we  
9 vote, that's a consequence we need to sort of think  
10 about.

11 CHARLIE GANLEY: And I think Darrel has  
12 some slides that shows you what specific uses or  
13 indications are for each category if you want to  
14 just pull those slides up, Darrel.

15 MARY TINETTI: So essentially we would  
16 be discussing the, these, these particular drugs for  
17 these particular indications.

18 CHARLIE GANLEY: Yeah, I think to try to  
19 get some clarity is, you know, again, this is the  
20 burden that we're going to have to share internally  
21 because a lot of these other claims were  
22 extrapolated, but for an antihistamine, for example,  
0268

1 the first one really just refers to allergy. The  
2 second claim refers to a common cold, okay.

3 If we can go, is there a slide before  
4 this? Okay, the antitussive, you see there's a  
5 temporary reduces cough due to minor throat and  
6 bronchial irritation associated with a cold, there's

7 a cold claim. The next one or that also has a cold  
8 claim but you see it may also state cough  
9 suppressant which temporary reduces the impulses to  
10 cough. Temporary helps to cough less and things  
11 like that.

12 So if you're just talking about claims  
13 related to a common cold, the first two ones would,  
14 you know, disappear but can they still make all the  
15 others and do you have the next slide.

16 Expectorant really doesn't have anything  
17 associated with a cold, so the question is well  
18 should that exist even since it's extrapolation, but  
19 again that, there's no cold claim there.

20 And is there a decongestant, and there,  
21 as you see the, there's a claim for, you can write  
22 it as temporarily relieves nasal congestion due to a  
0269

1 cold and hayfever and other respiratory allergins or  
2 you could kick out cold. Okay.

3 You see, we, we need to get some clarity  
4 what you're talking about and also what age groups,  
5 if people are just saying we just don't want it  
6 marketed for colds and things like that, but we're  
7 okay with the hayfever and upper respiratory  
8 allergies and things.

9 MARY TINETTI: Well we haven't, we have  
10 not addressed hayfever or allergies and so I propose  
11 that we, that we focus our discussion today on the  
12 cold.

13 Let's see, Celento I think was, Amy  
14 Celento I think was next.

15 AMY CELENTO: Hi, Amy Celento, I think  
16 it's a little bit hard to answer this question  
17 without looking at the labeling question next, but I  
18 do not believe that these products should be removed  
19 for under 12.

20 I do not administer these products to my  
21 child, but there are many, many adults who will and  
22 they will administer adult products to their  
0270

1 children because they know they work for them or  
2 they feel they work for them and I have some  
3 significant concerns about the fact that they're

4 completely gone and people have no alternative and  
5 practitioners have no other options but to say stay  
6 hydrated, use saline, sleep.

7 MARY TINETTI: Unintended consequences,  
8 that's a good point.

9 AMY CELENTO: Absolutely.

10 MARY TINETTI: Other. Dr. Rappley.

11 LAURA MARCIA RAPPLEY: I think that's a  
12 very good point and it hasn't been raised in the  
13 last two days but I think it's worth thinking about.

14 I also want to suggest that maybe we  
15 should first take a vote on age less than 2, because  
16 I felt that there was more agreement and consensus  
17 and then we could move, we could at least have that  
18 piece done and move on to the discussion of 2 to the  
19 less than 12.

20 MARY TINETTI: That's actually a good  
21 proposal, so unless anybody had any discussion  
22 that's not relevant to that, maybe that will help

0271

1 focus our discussion. Is that, okay.

2 So the proposal here then is based on  
3 discussions regarding efficacy and safety, should  
4 the, should these ingredients, and here I think  
5 we're talking about again the antihistamines, the  
6 decongestants, I guess actually not the expectorants  
7 if we're limiting it to cold and the antitussives,  
8 should they not be used right now in people -- in  
9 people under the age of 2.

10 Those in favor of, of that, raise your  
11 hand.

12 LAURA MARCIA RAPPLEY: This is  
13 Dr. Rappley and I vote yes, they should not be used  
14 in the age of less than 2.

15 MARY TINETTI: Thank you. Okay.

16 Dr. Newman, do you want to start?

17 TOM NEWMAN: Tom Newman, yes.

18 MIKE COHEN: Mike Cohen, yes.

19 PRESCOTT ATKINSON: Prescott Atkinson,  
20 yes.

21 JESSE JOAD: Jesse Joad, yes.

22 ROBERT TAYLOR: Robert Taylor, yes.

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1 MARIE GRIFFIN: Marie Griffin, yes.  
2 JAN HEWITT: Jan Hewitt, yes.  
3 WILL SHRANK: Will Shrank, yes.  
4 RALPH D'AGOSTINO: Ralph D'Agostino,  
5 yes.  
6 BEN CLYBURN: Ben Clyburn, yes.  
7 RUTH PARKER: Ruth Parker, yes.  
8 MARY TINETTI: Mary Tinetti, yes.  
9 DENNIS BIER: Dennis Bier, yes.  
10 AVITAL CNAAN: Avital Cnaan, yes.  
11 RICHARD NEILL: Richard Neill, yes.  
12 AMY CELENTO: Amy Celento, yes.  
13 ROBERT DAUM: Robert Daum, yes.  
14 LEON DURE: Leon Dure, yes.  
15 JEFF ROSENTHAL: Jeff Rosenthal, yes.  
16 SEAN HENNESSY: Sean Hennessy, yes.  
17 MARY TINETTI: Any nos? Any

18 abstentions -- oh, no.

19 WILLIAM CALHOUN: Calhoun, no for  
20 exactly the reason that Ms. Celento mentioned, the  
21 alternative indications.

22 MARY TINETTI: Thank you.

0273

1 Any abstentions?

2 DARREL LYONS: For the record, 21 yes, 1  
3 no and zero abstentions.

4 MARY TINETTI: Thank you. That was  
5 helpful.

6 So now the discussion is for cold  
7 indications for children between 2 and less than 12.  
8 Let's see, we can go back to some of the people who  
9 had some discussion, questions before. Dr. Neill I  
10 think was next.

11 RICHARD NEILL: This is the first  
12 meeting that I've been at where we've been asked to  
13 consider the efficacy of eight separate chemical  
14 entities and given so little data because so little  
15 exists in published form regarding the individual  
16 entities as opposed to combinations, however FDA  
17 staff, you guys did a very nice job putting together  
18 a summary and having gone through that, looking at  
19 Brompheniramine, Chlorpheniramine, Diphenhydromine,  
20 Doxylamine, Phenylephrine, Pseudoephedrine,

21 Dextromethorphan and Guiffasen, amongst all of those  
22 the only that I, only entity that I could even come  
0274

1 close to making a case for would be Pseudoephedrine  
2 based on the '94 study by Gallardo which  
3 demonstrated an effect, although the data that I  
4 reviewed didn't allow me to see whether that effect  
5 was uniform across the ages from 2 to 12.

6 It's also I think worth considering that  
7 Sudafed has a different status now than it did when  
8 the study was done and that that study included  
9 Pseudoephedrine in combination with Naprosin and the  
10 clinical end points that were measured did include  
11 end points that may have combined fever reduction  
12 and pain with things like decongestant effect.

13 And so that's really as close as I can  
14 get from any of these individually.

15 Having said that, the question that you  
16 asked earlier, Dr. Ganley, which I heard as do you  
17 really want to be responsible for the outcry that  
18 will arise when these things become unavailable in  
19 my mind has to be balanced with the outcry that we  
20 haven't heard for 30 years, which is why aren't  
21 people complaining that they're spending money for  
22 things that don't work.

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1 And that I think is a reasonable  
2 question and I think we've, we've asked it and it's  
3 been answered a little bit, it's because these  
4 things are marketed and they're marketed very well  
5 and when that question gets asked and answered,  
6 gosh, it doesn't work, then the ingredients change  
7 but the name stays the same. And while I think it's  
8 rational for any parent to want relief for a child  
9 with these kind of symptoms, you know, my response  
10 to Amy, your question, would be consider one of the  
11 other potentially safer, equally effective or  
12 ineffective fill in the blank here entities that are  
13 available over the counter, whether that be  
14 Vitamin C in the form of orange juice or I could  
15 imagine many others.

16 And so it's a real question, I don't  
17 want to, a Committee 30 years from now to be



18 laboring about public relations, in effect, when I  
19 think our job ought to be more focused on the  
20 science of the issue and the science is pretty  
21 clear.

22 MARY TINETTI: Dr. Nelson was next. Did  
0276

1 you still have --

2 SKIP NELSON: Well I was just going to  
3 point out that if, that the safety profile needs, is  
4 part of this question, the overall risk/benefit and  
5 if that is felt to rise to the level where  
6 withdrawal would be an appropriate action, I'm  
7 curious as to why then there wasn't much discussion  
8 about the misdosing leading to it being taken off  
9 over-the-counter status because much of the safety  
10 issues are related to misdosing.

11 MARY TINETTI: Okay, thank you.

12 Dr. D'Agostino, did you still have a  
13 question?

14 RALPH D'AGOSTINO: Yeah, I think the,  
15 from 2 to 12 they should stay on the market. I  
16 think the, what we've, there is a safety issue but  
17 I, I come down to, I'm going to keep writing it  
18 down, overdose, chronic prolonged medication,  
19 deliberate misuse, accidental interactions.

20 I think that we, we do have to be very  
21 concerned about the safety issue. Hopefully this,  
22 this press that this meeting will get will raise

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1 awareness of that, if it hasn't already done so, and  
2 I do think that the, it's time to forget this pk to  
3 the young, put clinical trials together, we've said  
4 all of that, so I think in sort of the spirit of  
5 what we've done with OTC products that have been on  
6 for many years in the past is that we make a, make  
7 ourselves aware of the safety issues and put out a  
8 meaningful agenda that can get to the efficacy and  
9 also more safety issues and resolve them and while  
10 that's happening, I think we should be keeping these  
11 products on the market.

12 MARY TINETTI: Thank you. Dr. Newman.

13 TOM NEWMAN: Just a question for  
14 clarification from the FDA staff and my question is

15 is what is the alternative to should not be used  
16 right now, because I think the regulation states  
17 that they can be marketed if they're generally  
18 recognized as safe and effective. We've established  
19 that they're not generally recognized as safe and  
20 effective and so the question is if we don't vote  
21 yes on this, is there some time line during which if  
22 they get re-classified as category 3, what is the  
0278

1 time line by which the sponsors would need to  
2 produce evidence of safety and efficacy?

3 CHARLIE GANLEY: Well the regulation  
4 process is a long and arduous process, but I think  
5 that doesn't prevent us having a meeting with  
6 industry and say, look, you need to go down this  
7 path because this is where we're heading and, you  
8 know, develop a sense of urgency for them.

9 And again, the, you know, the, your  
10 recommendation is something that we'll take into  
11 consideration and even if we wrote a proposed rule  
12 that, you know, to, to take some action, that's how,  
13 that's the process here. The Administrative  
14 Procedures Act allowed Dr. Sharfstein to submit his  
15 petition and challenge this, just as if we come out  
16 with a proposed rule, it allows other people to  
17 challenge our decision and, you know, if we agree  
18 with your decision, you know, your comments, so.

19 But again, I think there's mechanisms  
20 where, you know, there can be interactions that say  
21 this is where we're going to be heading, you know,  
22 through feedback meetings and things like that and  
0279

1 they should have a sense of urgency and  
2 understanding that they need to collect some  
3 information.

4 TOM NEWMAN: But you're not able to give  
5 any kind of a time line about when it would be or  
6 how long it would be able to continue to --

7 CHARLIE GANLEY: Well, you're welcome to  
8 say we want it done within so many, within two or  
9 three years we want to see something back.

10 TOM NEWMAN: Well, what, we as an  
11 Advisory Committee?

12 CHARLIE GANLEY: As an Advisory  
13 Committee. We can't -- we may not be able to do it  
14 from a regulatory point of view other than to get  
15 the rule-making process moved a little quicker,  
16 okay, but it, if you think that's important, then  
17 say we want to allow these to continue marketing but  
18 within three years we want this, this, this or we  
19 want the things done.

20 RALPH D'AGOSTINO: Charlie, what I was  
21 just saying is I would be very happy to put a motion  
22 up that, in following what I was saying that we give  
0280

1 the three-year time limit, that -- I was trying to  
2 say what you're saying, that there is an urgency and  
3 to put a time on it I think is very appropriate.

4 CHARLIE GANLEY: And we're talking about  
5 the 2 to 12 year age, is that --

6 RALPH D'AGOSTINO: The 2 to 12, yes.

7 CHARLIE GANLEY: All right.

8 MARY TINETTI: Okay. Perhaps just a few  
9 more questions, I think Dr. Daum was next.

10 ROBERT DAUM: So, the question as I  
11 understand it was not about pulling things on and  
12 off the market because I'm not sure we have that  
13 jurisdiction or capability, it was a question about  
14 should they be used right now. And I'm mindful of  
15 one of the advertisements we were shown yesterday  
16 with the cute little infants on top and checkmarks  
17 as to which symptoms you have or don't have, your  
18 baby, and therefore which ingredient you should or  
19 should not be using.

20 The American Academy of Pediatrics, the  
21 National Association of Nurse Practitioners and as I  
22 understand what we just voted on a few minutes ago,  
0281

1 this FDA Advisory Committee have all said that  
2 there's no benefit, no evidence of efficacy in these  
3 children for these products, so I don't know how we  
4 could possibly vote no on this question and be  
5 internally consistent and I, I'm just thinking --

6 MARY TINETTI: Doctor, you've made that  
7 point, thank you.

8 ROBERT DAUM: Well I'm emphasizing it.

9 MARY TINETTI: Thank you.

10 Is there any new points? We really do  
11 need to move along so I really ask you to confine  
12 your, to telling points that you think are new and  
13 relevant at this point.

14 DENNIS BIER: I'm not sure it's entirely  
15 new but it's addressing your issue as to how you  
16 could vote no. If these products were not on the  
17 market, I think the absence of any demonstrated  
18 efficacy would keep us from putting them on the  
19 market. Because they've been on the market for 40,  
20 50 years --

21 (Please pardon the interruption, your  
22 conference contains less than three participants at

0282

1 this time, if you would like to continue press star  
2 1 now.)

3 DENNIS BIER: Because there have been  
4 millions of person years of use and the absolute,  
5 you know, safety risk has to be very low, I believe  
6 it's very low.

7 What I'm, my, my, you know, my position  
8 here is we haven't demonstrated one way or the other  
9 whether or not they are efficacious and we should  
10 have the opportunity to do that, so I think that  
11 allowing a period of time to get those data with a  
12 real, with a, you know, a hard end point is what I  
13 would be interested in seeing.

14 MARY TINETTI: Dr. Calhoun was next.

15 WILLIAM CALHOUN: Thank you, Bill  
16 Calhoun. So the question is that I, we understand I  
17 think collectively that there has not been efficacy  
18 demonstrated for cough and cold.

19 The question really has to do with other  
20 indications for using these agents, in particular  
21 atopic disease, rhinitis and congestive  
22 rhinopathies, so is the implication of voting yes

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1 here that they would be removed for all indications  
2 or would products that are specifically marketed for  
3 allergy, even though they contain the same  
4 molecules, still be permitted?

5 CHARLIE GANLEY: Well that's not the

6 easiest question to answer because, for example,  
7 with cough, as you saw, there would be multiple,  
8 there's multiple claims in there aside from the  
9 common cold. The data to support those claims is  
10 pretty much the same, it's carried forward and so  
11 the, you know, again, we would have to propose a  
12 rule that lays out specific new types of claims  
13 where we're saying certain claims are not acceptable  
14 and others may be, okay.

15 WILLIAM CALHOUN: See, I would be  
16 concerned about removing these products from the  
17 market when there are legitimate reasons for using  
18 nasal decongestants and antihistamines for the  
19 treatment of atopic diseases.

20 CHARLIE GANLEY: Again, it's, it's hard  
21 to say how this is going to work itself out in that  
22 situation and so we, we do have to get some sense

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1 of, you know, what the position of the Committee is  
2 and again it goes back to what the petitioner has  
3 asked us to do. They want some immediate action,  
4 okay, and the administrative procedures don't  
5 necessarily allow me to make, take an immediate  
6 action unless there's, you know, compelling safety  
7 that, you know, we can't have this, these products  
8 available, okay, so, again, it's just not an easy  
9 question to answer in that regard and this question  
10 was generated a lot in what the petitioner had asked  
11 us to do.

12 Now again, the, whether things should  
13 be, you know, there, you know, the prominence of the  
14 marketing and things like that which we don't  
15 control, that's something that industry's going to  
16 have to decide. I think they've heard a little bit  
17 about, you know, the advertising of that, of these  
18 products and presenting fair balance in that and so,  
19 but -- I can't explain it any better than that. I  
20 wish I could. It's --

21 MARY TINETTI: I think the answer is  
22 we're not sure what will happen based on our vote.

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1 CHARLIE GANLEY: Right, again, and  
2 again, yours is a recommendation, okay. There was

3 another panel that recommended these were fine, so  
4 right now they're, you know, in the regulatory  
5 history they're considered safe and effective and  
6 there's a process we have to go through to change  
7 that. And that --

8 MARY TINETTI: Thank you, I think we'll  
9 move on, just do perhaps a couple more.

10 Dr. Atkinson was next.

11 PRESCOTT ATKINSON: Yeah, I just wanted  
12 to point out that even though the Dr. Levy and the  
13 petitioners, you know, have, have called for a  
14 withdrawal of these products for use in patients  
15 under 6 years of age, if you look at the American  
16 Academy of Pediatrics, the Academic Association of  
17 Pediatricians, they sort of fall short of actually  
18 calling for that drastic a measure and if, I think  
19 data was presented yesterday to show that the  
20 majority of pediatricians use these drugs and at  
21 least in older children for cough and cold remedies  
22 and my experience, and I've done a lot of outpatient  
0286

1 pediatrics, is that a lot of, a lot of doctors use  
2 these, the majority of the pediatricians that I know  
3 and they're going to be left with really very little  
4 recourse when patients come to them.

5 Many patients don't come with an acute  
6 upper respiratory infection, they come with a  
7 chronic litany of upper respiratory symptoms that  
8 are mixed in with allergy and recurrent viral  
9 infections from day care and so forth.

10 MARY TINETTI: Thank you. Again, just  
11 if there's just really any, did you get, Amy, get  
12 your additional point?

13 AMY CELENTO: No, thank you, Amy  
14 Celento.

15 I think what we've acknowledged over the  
16 past day and a half is that parents are using these  
17 medications to relieve what they consider symptoms  
18 which in reality in some cases means their child is  
19 sedated and they're able to sleep. They may not  
20 care that they're not coughing more, even though  
21 that they're coughing less, they know that they can  
22 sleep and my concern is that by taking these

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1 medications off the market, parents have limited  
2 alternatives and I will say that I'm not going to  
3 name names among my friends, but people do use these  
4 medications to induce sleep when their children are  
5 sick and I think that if we just completely ignore  
6 the fact that that happens and that they will find  
7 another way to be able to get their kids to sleep  
8 and for them to get sleep, we're doing a real  
9 disservice to consumers.

10 MARY TINETTI: Thank you, that's a good  
11 point.

12 Dr. Joad was next.

13 No, okay. Dr. Hennessy, did you still  
14 have your point?

15 SEAN HENNESSY: Sure, and I'll be brief,  
16 so the products were already taken off the market  
17 for children under 2 and the world did not come to a  
18 screeching halt. The drugs have been marketed for  
19 decades with little effort to demonstrate efficacy,  
20 they're used for a mild, a self-limited illness.

21 I think this Committee saying that the  
22 drugs should not be used unless and until evidence

0288

1 of efficacy is presented will provide the incentive  
2 needed to develop those data and that in giving the  
3 manufacturers a bye, allowing them to, or us saying  
4 that they should still be used in the absence of  
5 such efficacy data knowing that they cause risks  
6 would be irresponsible.

7 MARY TINETTI: Okay, thank you.

8 Dr. Nelson, did you still have your  
9 point? Dr. Griffin.

10 MARIE GRIFFIN: Yeah, I want to know  
11 what would happen at the end of three years because  
12 I don't think we're going to, we didn't recommend  
13 testing combination products, so I'm wondering if --

14 MARY TINETTI: We'll be getting to that  
15 actually, if, maybe sometime on Thursday.

16 MARIE GRIFFIN: But if we could separate  
17 the combinations from the single, you know, if we're  
18 talking about removing things from the market, there  
19 may be a way to separate out --

20 MARY TINETTI: Did you want to make a  
21 specific proposal?

22 MARIE GRIFFIN: Well I don't see that  
0289

1 anybody suggested testing combination products and  
2 so if we're not going to test them, then I don't see  
3 why we want to keep them on the market, so I -- we  
4 did.

5 So I, I think we could separately  
6 consider whether we think that combinations should  
7 not be available.

8 MARY TINETTI: Okay. I'm going to try  
9 to -- very brief, very brief.

10 JOHN JENKINS: Well that is question 5A.  
11 But I think it would help to have some clarification  
12 from, but I think the way we handle combinations,  
13 someone I think put it up there yesterday, we expect  
14 each ingredient in the combination to contribute to  
15 the effect, so we've had a long history of saying if  
16 you've got an antihistamine that you want to combine  
17 with a decongestant, you don't have to study that  
18 specific combination if, in fact, you're confident  
19 that the antihistamine addresses, say, runny nose  
20 and the decongestant addresses nasal congestion.  
21 We've allowed for those combinations.

22 We often require pharmacokinetic data to  
0290

1 make sure there's no drug, drug interactions, but we  
2 don't normally ask people to study combinations, per  
3 se, because in this class of drugs they're targeting  
4 different symptoms and if we're confident that the  
5 individual ingredients affect those different  
6 symptoms, we've allowed rational combination.

7 So, we're not really talking about  
8 studying every possible combination, that's an  
9 impossible task. You really, the approach we take  
10 is to establish the efficacy and safety of the  
11 individual ingredients and then decide if it's  
12 rational to combine them and whether we need any  
13 further studies to show that they contribute to the  
14 effect claimed, but for this group of drugs, we  
15 have, on the prescription end and nonprescription  
16 side have a long history of allowing these



17 combinations without additional efficacy studies if  
18 they're targeting different symptoms.

19 MARY TINETTI: Thank you and we'll be  
20 discussing that more coming up, so I'm going to try  
21 and we'll probably have to work a little bit on the  
22 wording of the question now, I think what we're  
0291

1 saying is now for children 2 to less than 12, for  
2 the ingredients for the common cold, I guess --  
3 should, I guess there's really two proposals, should  
4 we not allow them as of now or should we allow them  
5 for three years giving the, giving time for studies  
6 for efficacy.

7 So I think if that's all right, we'll  
8 propose that people could vote for one or the other  
9 of those two. Is that --

10 JOHN JENKINS: Well if I could just make  
11 one more comment about this issue, I think  
12 throughout the discussion in the last couple days  
13 there's been questions about extrapolation of  
14 efficacy, there's also the questions about  
15 benefit/risk and whether it's an acceptable  
16 benefit/risk balance.

17 So for those people around the table who  
18 are asking for new studies to demonstrate efficacy  
19 in these pediatric populations, I think we also need  
20 to understand if the studies are done and they show  
21 the same level of efficacy that we've seen in  
22 adults, which we've all agreed going around the  
0292

1 table is not dramatic, it's small, but it's been  
2 demonstrated in adults, does that present you with a  
3 favorable risk/benefit profile? People have been  
4 commenting as if that will magically change your  
5 thinking that if they show the same effect in  
6 children that we think they have in adults, that  
7 suddenly changes the risk/benefit profile to being  
8 favorable.

9 Is that a correct assumption or is that  
10 not a correct assumption?

11 MARY TINETTI: My guess is that people  
12 have come on differently in terms of the safety  
13 versus effectiveness and I think we've had a robust

14 discussion, my guess is there's not, people are  
15 going to look around the table and look upon that  
16 differently, but I think we'll address the question  
17 as, that's dealing with efficacy and dealing with  
18 safety.

19 We may come down differently upon that,  
20 but I think we have to, I would suggest that we just  
21 vote with the question as it's worded. I think  
22 we've already addressed the need for efficacy

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1 studies and we recognize the data that are available  
2 in adults and recognize that those were a sufficient  
3 standard to warrant their availability and I think  
4 beyond that I'm not sure we can say anything more  
5 specific than that.

6 Dr. Daum has a quick comment.

7 ROBERT DAUM: When you formulated the  
8 wording right now, and I know it's hard to do  
9 wording on your feet, so to speak, you said that the  
10 use of these ingredients should not be allowed and  
11 the language --

12 MARY TINETTI: Should not be used,  
13 should not be used.

14 ROBERT DAUM: Yeah, should not be used  
15 is better. That we recommend that they should not  
16 be used.

17 MARY TINETTI: Okay, maybe that's a  
18 little bit better.

19 We recommend that for children between 2  
20 and less than 12, these ingredients should not be  
21 used right now. Would anyone be in favor of that?  
22 Do you have --

0294

1 JEFF ROSENTHAL: I was just going to ask  
2 a clarifying point.

3 MARY TINETTI: Go ahead.

4 JEFF ROSENTHAL: The safety data that  
5 was presented actually showed some, or suggested  
6 some differences in the younger half of that  
7 spectrum, so I wonder whether this question of 2 to  
8 6 versus 6 to 12 is relevant in regard to this  
9 question.

10 MARY TINETTI: Are you proposing that

11 we, that we make it 2 to 6 and ask separately for  
12 the 2 to 6 and --

13 JEFF ROSENTHAL: Yeah, I'd be interested  
14 in that.

15 MARY TINETTI: Okay, okay.  
16 So the question now is should we  
17 recommend that children between 2 and less than 6  
18 not use these ingredients right now.

19 All in favor of that? Okay. Yeses,  
20 starting with Dr. Newman.

21 TOM NEWMAN: Tom Newman, yes.

22 JESSE JOAD: Jesse Joad, yes.

0295

1 MARIE GRIFFIN: Marie Griffin, yes.

2 JAN HEWITT: Jan Hewitt, yes.

3 WILL SHRANK: Will Shrank, yes.

4 BEN CLYBURN: Ben Clyburn, yes.

5 AVITAL CNAAN: Avital Cnaan, yes.

6 RICHARD NEILL: Richard Neill. Yes.

7 ROBERT DAUM: Robert Daum, yes.

8 LEON DURE: Leon Dure, yes.

9 JEFF ROSENTHAL: Jeff Rosenthal, yes.

10 SEAN HENNESSY: Sean Hennessy, yes.

11 MARY TINETTI: Dr. Rappley, did you want  
12 to vote?

13 LAURA MARCIA RAPPLEY: Yes, Marcia  
14 Rappley, yes.

15 MARY TINETTI: Okay. The nos, raise  
16 your hand. Okay, Dr. Calhoun, do you want to start.

17 WILLIAM CALHOUN: Because I'm not  
18 impressed of the safety data comprising an urgent  
19 public health hazard and because of the need for  
20 alternative indication for these drugs, I vote no.

21 MIKE COHEN: Mike Cohen, I vote no.

22 PRESCOTT ATKINSON: Prescott Atkinson,

0296

1 no.

2 ROBERT TAYLOR: Robert Taylor, no.

3 RALPH D'AGOSTINO: Ralph D'Agostino, no.

4 RUTH PARKER: Ruth Parker, no.

5 MARY TINETTI: Mary Tinetti, no.

6 DENNIS BIER: Dennis Bier, no.

7 AMY CELENTO: Amy Celento, no.

8 MARY TINETTI: Okay. Any abstentions?

9 Okay.

10 So to reiterate, the question is should,  
11 should we recommend that these ingredients not be  
12 used for the common cold right now for children  
13 between the ages of 2 and less than 6.

14 DARREL LYONS: We have 13 yes and 9 no,  
15 zero abstentions.

16 MARY TINETTI: Thank you.

17 And so now the vote will be should we  
18 recommend that these ingredients not be used for the  
19 common cold right now for children between 6 and  
20 less than 12. All those say yes, raise your hand.

21 Okay, starting with Dr. Newman.

22 TOM NEWMAN: Tom Newman, yes.

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1 JESSE JOAD: Jesse Joad, yes.

2 BEN CLYBURN: Ben Clyburn, yes.

3 RICHARD NEILL: Richard Neill, yes.

4 ROBERT DAUM: Robert Daum, yes.

5 LEON DURE: Leon Dure, yes.

6 SEAN HENNESSY: Sean Hennessy, yes.

7 MARY TINETTI: Dr. Rappley, did you want  
8 to vote?

9 LAURA MARCIA RAPPLEY: I'm voting no,  
10 Marcia Rappley, no.

11 MARY TINETTI: Okay, Dr. Rappley, okay.  
12 All nos. Okay, starting with Dr. Calhoun.

13 WILLIAM CALHOUN: For the same reasons,  
14 Calhoun, no.

15 MIKE COHEN: Mike Cohen, no.

16 PRESCOTT ATKINSON: Prescott Atkinson,  
17 no.

18 ROBERT TAYLOR: Robert Taylor, no.

19 MARIE GRIFFIN: Marie Griffin, no.

20 JAN HEWITT: Jan Hewitt, no.

21 WILL SHRANK: Will Shrank, no.

22 RALPH D'AGOSTINO: Ralph D'Agostino, no.

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1 RUTH PARKER: Ruth Parker, no.

2 MARY TINETTI: Mary Tinetti, no.

3 DENNIS BIER: Dennis Bier, no.

4 AVITAL CNAAN: Avital Cnaan, no.

5 AMY CELENTO: Amy Celento, no.

6 JEFF ROSENTHAL: Jeff Rosenthal, no.

7 MARY TINETTI: Okay, any abstentions?

8 Okay.

9 So the question is should we recommend

10 that these agents should not be used for the common

11 cold right now for children between 6 and less than

12 12. The vote --

13 DARREL LYONS: The vote was, the vote is

14 7 yes, 15 no, zero abstentions.

15 MARY TINETTI: Okay, thank you.

16 Move on to the labeling question and

17 what's proposed to us is currently the directions

18 for some of the over-the-counter cold and cough

19 products such as a decongestants and antitussives

20 instruct a parent to, quote, consult a doctor for

21 children under 2 years of age. The directions for

22 antihistamines instruct a parent to consult a doctor

0299

1 for children under 6 years of age. There's also

2 professional labeling available for antihistamines

3 for children between the ages of 2 to 6.

4 The consult a doctor or ask a doctor

5 directions have permitted physicians to make

6 clinical judgments about whether an OTC product was

7 right for a child under their care. The labeling

8 proposed in the petition would potentially limit the

9 ability of physicians to prescribe over-the-counter

10 cough and cold products in children less than 6 and

11 may also impact the labeling for children less than

12 12 years of age.

13 If there are groups that should not use

14 these products, discuss the language that should be

15 used to convey this and to say what the petitioner

16 has recommended and we could certainly begin by if

17 we accept that wording, then our job is done, but if

18 not, we'll need to talk further, these products have

19 not been found to be safe and effective for children

20 under 6 and we can discuss what age, under 6 years

21 of age for treatment of cough and cold. These

22 products should not be used for treatment of cold

0300

1 and cough in children under 6 years of age and we're

2 asked to agree with this, with this wording.

3 Any discussion? Dr. Ganley.

4 CHARLIE GANLEY: Yeah, if I could just  
5 have Dr. Parker and Dr. Shrank be put on the spot  
6 here of what they think how complicated this  
7 language is and how consumers are going to  
8 understand it, so I'd be interested in your comments  
9 on it since you've done a lot of work on the  
10 prescription side, understanding prescription  
11 labels, so.

12 WILL SHRANK: Yeah, it's too  
13 complicated. I think that certainly there's a way  
14 to simplify this message and make it easier to read  
15 and understand.

16 Also I'm not sure that we'd all feel  
17 comfortable saying it's not been found to be safe,  
18 maybe we should say it may not be safe. I don't  
19 know that -- the safety data I guess is an issue  
20 that we don't all feel entirely comfortable with,  
21 but certainly I think this message would need to be  
22 re-structured so that it's, I would imagine, I don't

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1 have a lexile with me, but I'm sure that this is a  
2 much higher reading level than we would want to have  
3 as a critical warning on an over-the-counter  
4 medication.

5 RUTH PARKER: I think I know a couple  
6 people who would know what it means, that would be  
7 my bottom line.

8 And if, if what it means is do not take  
9 this if you are 6 years old or younger, it's got to  
10 be really clear, it's got to be said one way, only  
11 one way and the language of that would need to be  
12 tested officially to find out with people who are  
13 going to be using it, like you do in a label  
14 comprehension, what language works and then that's  
15 got to be it on all of them across the board.

16 Also you would want to know if there is  
17 a standard warning or icon that draws attention to  
18 it that people see and they see it and I'm going to  
19 tell you, people will not stop at stop signs if  
20 there are 20 different looking stop signs out  
21 there -- or stop lights. We need one and it's a

22 great opportunity if there's one message to say it

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1 and it's got to be developed with people, it

2 actually has to be tested.

3 We have good, we have good data now on  
4 peoples ability to re-decode and use warning labels  
5 and it's not good and so if this is an important  
6 message, we need to treat it like it's important and  
7 we're going to figure out the best way to say it.

8 And in its current format, it's not very  
9 useful.

10 MARY TINETTI: So are you saying, I hear  
11 from both of you that this wording is not  
12 appropriate but it is probably not something that we  
13 can sit around the table today and come up with the  
14 correct wording, so we'd be proposing that the  
15 wording --

16 WILL SHRANK: I think it's plausible to  
17 say that we do or do not agree with the message, but  
18 I think we probably really want to develop and test  
19 and --

20 MARY TINETTI: Okay, fair enough.  
21 Any other discussion?

22 RUTH PARKER: The only other thought I

0303

1 have is as you test it with consumers, patients who  
2 would be taking it, you need to also query and ask  
3 them how they feel about their doctor who asked them  
4 to go take it when it says right there on the label  
5 not to. If you're asking people to take the label,  
6 read it and use it and you've got practitioners who  
7 are recommending it, so this actually needs to be  
8 thought out, well done so that you get useful  
9 information on the other side of it.

10 MARY TINETTI: So with that discussion,  
11 I guess the question to the FDA is it sufficient for  
12 us just to yea, nay to this particular wording? Or  
13 do you want, or should we, should we actually  
14 propose what's being recommended here that attention  
15 be paid to the wording because it sounds like we're  
16 in support of the sentiment but not the wording.

17 CHARLIE GANLEY: Well I guess the, the,  
18 I think I understand with Will's one exception where

19 he's a little uncomfortable with it, it's not safe,  
20 it may not be safe and there's a lot of nuances and,  
21 you know, there's a lot of different things about  
22 labeling here. And I think Ruth is essentially  
0304

1 saying is that I don't want to tell you what to do,  
2 but I'd like you to test something and that's what  
3 we're going to put on the label with these concepts  
4 and that may help eliminate some of the yes and nos  
5 for the subsequent questions.

6 Because these are three things in a row  
7 here and if there's a consensus on that where we,  
8 you know, it has to be, you know, clear, it has to  
9 convey a direct message, we have to understand what  
10 it's going to mean, if a health provider is going to  
11 recommend that they go use this product in things  
12 and if there's a consensus on that that's helpful,  
13 and I'm not sure we need to vote on everything else.

14 MARY TINETTI: Do you want to propose  
15 something for us then, Dr. Parker?

16 RUTH PARKER: Well we spoke about  
17 standardized devices, dosing devices, we spoke about  
18 standardizing dosing earlier and I think here we  
19 could talk about standardized warning and the  
20 language of warning and perhaps this would have to  
21 be developed alongside the language of the warning,  
22 a symbol that is universally used to draw attention

0305

1 to it, there again, in something like a label  
2 comprehension that would then become a roadmap for  
3 how we do this on over-the-counter products in a  
4 standardized way, important message, draw attention  
5 to it, work with the people who are going to be  
6 taking it and then eventually use this in your  
7 educational campaign, be you a manufacturer, be you  
8 an educator, be you a practitioner to help patients  
9 understand, consumers, how to find the information  
10 that they need to safely and effectively take their  
11 medications.

12 CHARLIE GANLEY: And I would also be  
13 presumptuous to think that a lot of you don't like  
14 the consult a doctor or ask a doctor language; is  
15 that, would that be an incorrect --



16 MARY TINETTI: I think that would be a  
17 correct assumption.

18 Dr. Neill.

19 RICHARD NEILL: Richard Neill. I am  
20 absolutely in sympathy with the comments that  
21 Dr. Parker just made, but want to remind the group  
22 and I'd be anxious to hear if I'm wrong about this,  
0306

1 that the ability of the FDA to influence the  
2 language label for the consumer space is limited and  
3 so a universal stop or a universal sign I think is a  
4 phenomenal direction to go in, but I'm, I'm not  
5 confident that any recommendation that we make could  
6 be applicable to the consumer space given that it's,  
7 you know, kind of wide open wild west out there  
8 outside of the monograph and NDA process.

9 CHARLIE GANLEY: Again, we can write  
10 regulations as to what's required in drug facts or  
11 on a principal display panel. So if, if the symbol  
12 is something that goes on a principal display panel,  
13 we do have the authority to write a regulation that  
14 proposes that be on it.

15 RICHARD NEILL: For herbals and  
16 supplements and homeopathic as well?

17 CHARLIE GANLEY: Well we're not talking  
18 about homeopathic, no, no, we're talking about OTC  
19 drug products now.

20 RICHARD NEILL: I understand, I'm  
21 talking about the consumer space, that's all.

22 CHARLIE GANLEY: Well are you talking  
0307

1 about on drug products or on dietary supplements?

2 RICHARD NEILL: In the consumer space I  
3 would defy you to take 10 consumers and ask them  
4 what is what and which one is regulated by whom. In  
5 fact, we could take the 22 of us and we wouldn't be  
6 able to tell.

7 CHARLIE GANLEY: Well you should write  
8 your Congressman, I think.

9 RICHARD NEILL: Noted.

10 MARY TINETTI: All right, so getting  
11 back to what we can do today, so, so hearing our  
12 general sentiments, do you need us to vote on

13 anything or have you got enough guidance from us?

14 CHARLIE GANLEY: I think it's a  
15 consensus that it's a little too much, we need to  
16 come with something that's really straightforward,  
17 gets the message across, they understand what that  
18 means with regard to whether a physician tells them  
19 to take it or not and that they're going to not, you  
20 know, I think we get the gestalt and if everyone's  
21 in agreement that that's the best way, we can  
22 eliminate the rest of the --

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1 MARY TINETTI: Fair enough. Is there  
2 anyone else that disagrees with that?

3 Dr. Atkinson.

4 PRESCOTT ATKINSON: I just want to point  
5 out that putting the word should not in there has  
6 medical, legal implications for the prescribing  
7 habits of tens of thousands of pediatricians and I  
8 think that the data, you know, that's been gone over  
9 in the last couple days are unclear and everybody  
10 agrees that more studies need to be done, but this  
11 does seem like a little bit of a strong measures  
12 considering the lack of, lack of --

13 MARY TINETTI: So that should get  
14 incorporated into the wording is addressing that  
15 medical, legal issue of the actual wording, because  
16 I think we're saying that this is not the wording we  
17 necessarily want to support, the sentiments are  
18 appropriate and I think that's another good point  
19 that needs to get incorporated.

20 RUTH PARKER: I would just state that,  
21 you know, this progress in standardizing a warning  
22 and presenting it in a uniform way is building on

0309

1 the progress that FDA made with drug facts on the  
2 label and, you know, I think a piece of continuing  
3 to take the good work that was done in the  
4 standardization of that format and building on it to  
5 improve the consumer's ability to self-select for an  
6 over-the-counter product.

7 MARY TINETTI: Okay. Thank you.

8 I think we can move on and I think  
9 actually some of these we have resolved, but part B

10 of that is reminder that efficacy has been  
11 extrapolated for children less than 12 years of age,  
12 should FDA consider similar labeling as suggested by  
13 the petitioner for children less than 6 years of  
14 age. I believe we've already answered that  
15 question.

16 The next is, again, I think we've  
17 already answered number C, letter C, you decide that  
18 the use of some products in children less than  
19 2 years is not prohibited, please discuss how these  
20 products for children less than 2 should be labeled.  
21 And again, we have I think voted pretty unanimously  
22 against that, so I think that's probably not

0310

1 something we need to address further.

2 D, please discuss additional information  
3 that should be on the principal display panel to  
4 better inform consumers about the product. Some  
5 discussion on the principal -- does everybody know  
6 what the principal display panel is?

7 Okay. Dr. Ganley, do you want to  
8 clarify for all of us what the principal display  
9 panel is.

10 CHARLIE GANLEY: Well the principal --  
11 Mike Cohen can probably do it better than I. Yeah,  
12 that's the principal display panel, he has an  
13 example, it's the front panel that you usually see  
14 sitting on the shelf.

15 TOM NEWNAM: The front or the back?

16 CHARLIE GANLEY: It's the front. Right,  
17 I think some of the discussion yesterday involved  
18 you going to a medicine counter and your seeing,  
19 your seeing the principal display panel and the  
20 amount of information is overwhelming on that and  
21 they, the way that the products are selected, it's  
22 putting the symptoms on and, you know, not

0311

1 necessarily the active ingredient, so if, if you,  
2 you know, for example, the active ingredient is not  
3 required on the principal display panel for a  
4 combination product and your advice may be that it  
5 should be on there and that's what we're talking  
6 about here.

7 MARY TINETTI: Okay. Dr. Cohen.

8 MIKE COHEN: Yeah, I was going to make a  
9 push for more prominent use of the ingredients, the  
10 actual ingredients on the front label panel. I know  
11 with prescription drugs the non-proprietary name has  
12 to be about half the height of the brand name and it  
13 appears immediately following the brand name, even  
14 in advertising, et cetera. And that's not the case  
15 for these. As you just pointed out, it doesn't even  
16 have to be listed, nor does the strength that I know  
17 of have to be listed and so what you have is a  
18 primary display panel that's mixed in with a lot of  
19 color, large names for the brand name so that people  
20 see that and unfortunately I, I really think  
21 consumers are at the point where they are beginning  
22 to learn the name, for example, Acetaminophen, and  
0312

1 yet we see advertisements all the time with the word  
2 Tylenol, it's not associated with Acetaminophen in  
3 ads, on television, elsewhere I've seen the same  
4 thing and unfortunately people miss the fact that  
5 that is the same --

6 MARY TINETTI: So are you proposing the  
7 ingredients should be on, anything else other than  
8 the ingredients that you want to --

9 MIKE COHEN: The ingredients and the  
10 strength.

11 MARY TINETTI: And the strength. Okay.  
12 Dr. Parker.

13 RUTH PARKER: You asked what should be  
14 on there and I agree with you completely about the  
15 ingredients and I'm sort of thinking of someone  
16 walking up to the shelf in trying to figure out what  
17 to do and, you know, you didn't ask for what should  
18 not be there, but I would like to have us ponder  
19 this thing about number one doctor recommend being  
20 on the front panel.

21 MARY TINETTI: Are you proposing that it  
22 should not be?

0313

1 RUTH PARKER: Yes.

2 MARY TINETTI: Is there general  
3 sentiment on that, I don't think we have to vote on

4 all of these, but I think Dr. Cnaan was next.

5 AVITAL CNAAN: Yes, one of several of  
6 the overdose anecdotes that we've heard from the  
7 various databases were when children were taking two  
8 products that shared an ingredient and I'm not sure  
9 if that is for the display or the back, I'm not that  
10 experienced in that, but somewhere to say in a  
11 prominent way not to take two products that share  
12 ingredients.

13 I think asking consumers not to take two  
14 products that have two different ingredients from  
15 the same family is asking too much, but if it's the  
16 same exact word, don't take two products with the  
17 same exact word.

18 AMY CELENTO: Amy Celento, I'm not sure  
19 this can go on the primary display label, but the  
20 instruction not to use this to sedate your children  
21 or your child, whatever appropriate wording I think  
22 needs to be incorporated.

0314

1 MARY TINETTI: And that would be just  
2 for the, that would be the for the antihistamines  
3 and, I don't know if Dexamethorphan gets used for  
4 that or not. Okay. Probably a good point.

5 Dr. Cohen and then Dr. Newman.

6 MIKE COHEN: Can I just ask a question  
7 about how this would be regulated or how oversight  
8 would be applied, I'm not really sure about that,  
9 would you change the monograph and then it would be  
10 misbranding if you made certain statements in that  
11 monograph that would have to be followed and that's  
12 how you would do it?

13 CHARLIE GANLEY: Right, if there's  
14 certain required statements and there's folks on  
15 compliance here, they probably could answer it  
16 better than I could, I don't know where they're at,  
17 but if there's certain statements that are required  
18 and they're not included in there, then it could  
19 become a misbranding issue which would require  
20 potentially a recall of that individual product,  
21 okay.

22 Now it gets a little more difficult with

0315

1 the number one doctor recommended, okay, because it  
2 gets into some First Amendment issues which I'm not  
3 qualified to talk about because they are allowed to  
4 put what is considered truthful information on their  
5 packages. And so that is, becomes a very gray area,  
6 but if, if the Committee does want to opine on that,  
7 we certainly would be interested in, and I think  
8 industry can hear that, too.

9 MARY TINETTI: Dr. Newman.

10 TOM NEWMAN: I just want to say not only  
11 do we need to make sure that we have the generic  
12 names and the number of milligrams per 5 ml or some  
13 standard concentration, but that the generic names  
14 be, I would vote for at least as big as the brand  
15 name but certainly right here you can, they're much,  
16 much smaller, so I'd vote for at least as big on the  
17 brand name and on the back, I can't even read this,  
18 it's really tiny.

19 MARY TINETTI: Any other comments?

20 So I think we've heard so far is that  
21 we're recommending on the principal display panel  
22 that all the ingredients should be listed as their  
0316

1 generic at least as large as the brand name,  
2 including the strength and concentration, and to  
3 clarify that you should not take two products with  
4 the same ingredients and that they should not be  
5 used for sedation and should not include the term  
6 doctor recommended.

7 WILL SHRANK: And we also said something  
8 about who shouldn't be taking the medicine or at  
9 least Ruth suggested that there be some sort of a  
10 stop light for a type of person that shouldn't be  
11 taking.

12 MARY TINETTI: And who should not take  
13 the, okay.

14 RUTH PARKER: Just one, one thing, I  
15 worry about with these combination products if you  
16 say not, you know, if you warn people, this is why  
17 you've got to test it, if you warn people not to  
18 take two products with the same ingredients, does  
19 that mean if one product contains three ingredients  
20 and the other one contains two, that they contain

21 the same ingredients? So you've got to be really  
22 careful about how you do this. If one contains one,  
0317

1 one contains two, one contains three, so, there  
2 again, the wording being incredibly careful to make  
3 sure that we're able to communicate the meaning that  
4 we want the consumers to have and we come to some  
5 common language that our educational campaign around  
6 it, in the office, in the public sector, on  
7 television, in the magazines is all about the  
8 essence of the true meaning that helps people have  
9 safe and effective use.

10 MARY TINETTI: Dr. Calhoun was next and  
11 then Dr. Daum.

12 WILLIAM CALHOUN: So the proposal  
13 includes a ban on the use of number one doctor  
14 recommended? Is that, did I hear that correctly?

15 MARY TINETTI: I think it was talking  
16 about on the principal display panel.

17 WILLIAM CALHOUN: Yeah, so just kind of  
18 segwaying from what Dr. Ganley was talking about,  
19 you might ban a particular phrase, but maybe they  
20 put doctor recommended or maybe number one seller or  
21 whatever, so there's a whole host of marketing terms  
22 that could be applied and I'm not sure that it's

0318

1 either useful nor necessarily scientifically  
2 justifiable for us to try to exclude specific, what  
3 are essentially marketing terms from packaging.

4 If they're misleading, if they're  
5 untrue, then they come under FTC or FDA, depending,  
6 I guess, but I'm not sure that it's within the  
7 scientific purview to ban specific phrases and if  
8 you do, then something else will just crop up.

9 CHARLIE GANLEY: What would be helpful,  
10 though, is for them, for us to get an understanding  
11 of what impact that has on a consumer, because it  
12 really gets back to, in my view, if you're having  
13 number one doctor recommended, well this must be  
14 pretty safe and effective and, you know, I can take  
15 it and there's no real fair balance in that.

16 And so we, we have no data and no  
17 understanding of how that impacts on the marketing

18 or the perception of the consumer, so if you're  
19 interested in them providing us some information on  
20 that so we really understand it, that would be a  
21 helpful.

22 WILLIAM CALHOUN: Yeah, I guess the flip  
0319

1 side of that is you could say on the market for  
2 30 years or largest seller or used by billions of  
3 babies.

4 CHARLIE GANLEY: You know, it can go on  
5 and on.

6 WILLIAM CALHOUN: You can make all these  
7 things up.

8 CHARLIE GANLEY: No, I understand.

9 WILLIAM CALHOUN: It's like chasing a --

10 MARY TINETTI: I think the question is  
11 are there one or two of those that are particularly  
12 misleading and I guess that's really the question,  
13 and if those would be something that we would  
14 recommend be tested, yeah, I agree, something else  
15 will pop up, but if there's something that's  
16 particularly concerning to us, this would be the  
17 opportunity to address that.

18 Dr. Daum.

19 ROBERT DAUM: Yeah, I'd like to at least  
20 raise for consideration the removal of pictures of  
21 infants from these boxes because at the least,  
22 whether it comes off the shelf or not is a question,  
0320

1 but at least we're not going to be recommending it  
2 for people under 6 and so I don't see any point in  
3 putting babies, happy or otherwise, on the box.

4 MARY TINETTI: That's a very good point.  
5 Okay.

6 Ms. Hewitt.

7 JAN HEWITT: Along the same lines I'd  
8 also be concerned of having an image of a child for  
9 which a parent quickly scanning the shelf would pick  
10 it for her 7 year old but also would think a 5 year  
11 old could appropriately take it without necessarily  
12 going directly to the do not use or whatever  
13 language we decided upon, the image of a child may  
14 still represent a problem.



15 MARY TINETTI: So you're suggesting  
16 there should not be pictures of children?

17 JAN HEWITT: Right.

18 MARY TINETTI: Okay. So I think that  
19 was just a discussion, I don't think there's  
20 anything we can vote on with that. Okay.

21 Yes.

22 CHARLIE GANLEY: It's just I hate to

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1 have you go back, I just want one clarification, I  
2 think Dr. Atkinson brought it up about potential  
3 language that would impact on a pediatrician or  
4 other health practitioner to prescribe or to tell  
5 someone to go take a product where, and the language  
6 becomes exact and it is at an absolute if a health  
7 provider would say even though the label says do not  
8 use in your child under 6 years of age or whatever,  
9 could a prescriber then, you know, feel confident  
10 that they would be able to do that, to tell someone  
11 to go use that product for whatever reason.

12 Now we did see some information that,  
13 you know, pediatricians and family practitioners and  
14 nurse practitioners are using this, so we heard his  
15 opinion, were you the one, Dr. Atkinson.

16 So it would be interesting to hear if  
17 other people think there's, you know, if it got to  
18 the point where we had language on there about do  
19 not use under a certain age group, could a  
20 prescriber then have the freedom to say yeah, you  
21 can, because for whatever reason they want.

22 MARY TINETTI: Any comments or

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1 discussion? Dr. Goldstein.

2 GEORGE GOLDSTEIN: Two things, first of  
3 all apart from the First Amendment and commercial  
4 speech being a protected form of that, there are  
5 substantial advertising substantiation operations as  
6 we speak both in companies with legal staffs and the  
7 networks and other forms of the media, so that this  
8 has to go through, a lot of this has to go through a  
9 process that, not all the time successful, but tends  
10 to filter out, if you will, the more egregious  
11 versions of that and I think the panel has to keep

12 that in mind.

13 MARY TINETTI: Dr. Atkinson.

14 PRESCOTT ATKINSON: Yeah, if I could  
15 just add on that, I think that if we put language  
16 like that in to the OTC products it's going to spill  
17 over into the use of prescription products of the  
18 same character without a doubt and this will have to  
19 have an effect on the prescribing habits or, and so  
20 forth and I think it's reasonable if the Committee  
21 wants to, wants to decide that parents shouldn't go  
22 out and decide for themselves at a certain, you

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1 know, for young children to use these, but I think  
2 considering the thousands of practitioners, family  
3 practitioners and pediatricians have used these  
4 products and feel that they're safe and effective, I  
5 don't think it's reasonable in view of the lack of  
6 data for us to sort of dictatorially not put this  
7 language in.

8 MARY TINETTI: Conversely, if we add  
9 something like unless directed by a doctor, we've  
10 defeated the whole rest of the message.

11 I would favor, as you said, this is  
12 going to go through a lot of legal hoops and my  
13 guess is that's where a lot of this will play out,  
14 but I think the sentiment is, the sentiment is what  
15 the sentiment is here, that they shouldn't be used,  
16 that there's no evidence of it, so I'm not sure we  
17 want to water that down by, by saying unless  
18 directed by a physician. That just goes right back,  
19 I mean it just voids all over -- so that would be my  
20 feeling, I'm not sure there's any wording that we  
21 can come up with right now that would deal with the  
22 medical -- the legal issues of it unless anybody

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1 else has any other feeling about it.

2 Okay, I believe, Dr. Rappley, you had a  
3 question or a comment.

4 LAURA MARCIA RAPPLEY: Yes, I find the  
5 use of doctor recommended particularly egregious and  
6 I think from this day forward it has no credibility  
7 and if it continues to be used it's used to mislead  
8 people, so I would like to go on record and I would

9 like to take a vote saying that we would strongly  
10 recommend that that language not be used.

11 MARY TINETTI: Okay, so Dr. Rappley has  
12 proposed that we actually vote specifically on the  
13 term doctor recommended for on the display panel and  
14 I presume any, any variations on that theme of  
15 doctor recommended?

16 LAURA MARCIA RAPPLEY: Yes.

17 MARY TINETTI: The marketers are pretty  
18 clever, they get paid a lot more than we do to  
19 circumvent, but I think the sentiment is anything  
20 related to doctor recommended.

21 Okay. The proposal is to vote, so the  
22 proposal is that we recommend that terms similar to  
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1 or related to doctor recommended not be allowed on  
2 the display, on the primary display panel.

3 All in favor raise your hand.

4 LAURA MARCIA RAPPLEY: This is  
5 Dr. Rappley, I vote yes.

6 MARY TINETTI: Okay. Start with --

7 SEAN HENNESSY: Sean Hennessy, yes.

8 JEFF ROSENTHAL: Jeff Rosenthal, yes.

9 ROBERT DAUM: Robert Daum, yes.

10 AMY CELENTO: Amy Celento, yes.

11 RICHARD NEILL: Richard Neill, yes.

12 AVITAL CNAAN: Avital Cnaan, yes.

13 DENNIS BIER: Dennis Bier, yes.

14 MARY TINETTI: Mary Tinetti, yes.

15 RUTH PARKER: Ruth Parker, yes.

16 BEN CLYBURN: Ben Clyburn, yes.

17 RALPH D'AGOSTINO: Ralph D'Agostino,  
18 yes.

19 WILL SHRANK: Will Shrank, yes.

20 JAN HEWITT: Jan Hewitt, yes.

21 MARIE GRIFFIN: Marie Griffin, yes.

22 ROBERT TAYLOR: Robert Taylor, yes.

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1 JESSE JOAD: Jesse Joad, yes.

2 PRESCOTT ATKINSON: Prescott Atkinson,  
3 yes.

4 MIKE COHEN: Mike Cohen, yes.

5 TOM NEWMAN: Tom Newman, yes.

6 MARY TINETTI: Nos? Dr. Calhoun.

7 WILLIAM CALHOUN: I guess on the basis  
8 of First Amendment considerations, I'm going to have  
9 to vote no.

10 MARY TINETTI: Fair enough. Any  
11 abstentions, okay.

12 So the question was should mention of  
13 related terms such as doctor recommended be removed  
14 or not allowed on the principal display panel.

15 DARREL LYONS: The vote was 20 yes, 1  
16 no.

17 MARY TINETTI: Is that --

18 DARREL LYONS: Zero abstentions.

19 MARY TINETTI: Dr. Leon Dure had left at  
20 the time of this vote.

21 We're on our final question here related  
22 to combination products. Most cough and cold

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1 products are available as combination products,  
2 combination products may be considered a problem  
3 because, for example, parents and caregivers may use  
4 several products not realizing that they are  
5 duplicating ingredients and overdosing their  
6 children.

7 Currently the monograph allows for  
8 combinations of several ingredients. Should  
9 marketing of combination products be allowed for  
10 children, yes, no. If no, for which age groups. In  
11 addressing this, please consider the following  
12 points, there may be advantages of combination  
13 products assuming correct use. There may be  
14 unintended consequences of prohibiting combination  
15 products in that parents will use multiple single  
16 ingredient products and there may be disadvantages  
17 if overdosing occurs with multiple ingredients.

18 If yes, should the number of active  
19 ingredients in combination products be limited in  
20 order to reduce the use of overlapping ingredients  
21 in different products, yes or no.

22 So we're asked to, to address the

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1 question of combination products and whether they  
2 should be allowed and when you answer this, if you

3 could, at this point we don't necessarily need a yes  
4 or no, but if you have a sentiment one or the other,  
5 what, what rationale supports your decision.

6 MIKE COHEN: Excuse me, Dr. Tinetti, you  
7 missed the final question about the name in 4E I  
8 think it was.

9 MARY TINETTI: I'm sorry, what did I --  
10 oh, I'm sorry.

11 MIKE COHEN: We can bring that up after.

12 MARY TINETTI: Okay, why don't we finish  
13 this one, we'll go back, thank you for, it's getting  
14 late in the day, thank you, thank you for noticing  
15 that. Let's finish on this question and then we'll  
16 go back.

17 Discussion on combination products.

18 Okay. Dr. Daum and then Ralph D'Agostino.

19 ROBERT DAUM: I'm going to at least  
20 advance the idea that it's fundamentally the same  
21 question we considered before, the one we did the  
22 less than 2s and the 2s, 2 to less than 6 and the 6

0329

1 to 12 -- or 6 to less than 12, so I think that we  
2 could, perhaps, if the Committee is willing to cut  
3 to the chase and take the same tact or if people  
4 think that combinations are different than the  
5 singles we should discuss them.

6 MARY TINETTI: Well I think we've  
7 already said nay to under 2 so I don't think we need  
8 to discuss that age group, so the question is  
9 whether or not, so the --

10 ROBERT DAUM: Well we've already said  
11 nay to under 6, so the question is between the 6  
12 and, 6 and 12.

13 MARY TINETTI: So we should just focus  
14 on the 6 to less than 12.

15 ROBERT DAUM: That's my proposal.

16 MARY TINETTI: Any objection to that?

17 LAURA MARCIA RAPPLEY: I agree.

18 CHARLIE GANLEY: Well it was a mixed  
19 vote on the 2 to 6, I think.

20 MARY TINETTI: Right, that was my  
21 feeling, right.

22 Okay. Is it a question related to this

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1 point? No, we're just talking, I just want to just  
2 make some decision based on Dr. Daum's  
3 recommendation that we focus just on the 6 to, this  
4 6 to 12 because we're, the vote was mixed -- what  
5 was the vote again, do you remember, for the 6 --  
6 less -- 2 to 6.

7 ROBERT DAUM: My proposal was a little  
8 different than that, it was just that we take the  
9 same tact that we took with the other three age  
10 groups and, in other words, the combinations are  
11 different than the singles, so it would be --

12 MARY TINETTI: So allow combinations for  
13 the underage groups?

14 ROBERT DAUM: So no to under 2, mixed  
15 votes, but no to under 6 and mixed vote but yes to 6  
16 to 12.

17 MARY TINETTI: Okay.

18 ROBERT DAUM: I don't see this as a  
19 different issue is what I'm trying to say.

20 MARY TINETTI: Okay. I think there are  
21 some different issues, but that we can certainly  
22 start, we can certainly start there.

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1 Can we just have comments on this  
2 recommendation first, Dr. Calhoun.

3 WILLIAM CALHOUN: So I see the  
4 combinations as being just subtly different, I don't  
5 disagree with you fundamentally, but I see them as  
6 subtly different in that because the combinations  
7 enhance the likelihood for misuse and overdosage, I  
8 think the risk of combinations is actually greater  
9 than the risk of single agents and so that might  
10 potentially color some peoples votes.

11 So it wouldn't necessarily be the same  
12 vote for single agents as it might be for  
13 combinations because of the enhanced potential for  
14 toxicity.

15 MARY TINETTI: Dr. Parker.

16 RUTH PARKER: I agree with you  
17 theoretically but I don't know if we have evidence  
18 on that. It sure would be nice if we did, but I  
19 sure agree with you on it theoretically. My

20 question was what percent of market share are, is  
21 represented by combination of these products versus  
22 single ingredient?

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1 MS. SUYDAM: Combinations are 75 percent  
2 of the market share and I believe if you will look  
3 at the data that was presented both by the FDA and  
4 by the industry, that the events actually are about  
5 actually -- which means that combinations are safer.

6 MARY TINETTI: Thank you, I wish we all  
7 could be so sure.

8 I think, I'm still not quite sure that I  
9 think, I understand the point of your question but I  
10 think perhaps, your point, Dr. Daum, but I think  
11 perhaps we want to have a more general discussion.

12 I think we're talking, I think for the 2  
13 to less than 12 year old, for multiple ingredients  
14 versus the single ingredients first and then if it  
15 plays out that we feel differently by age, then we  
16 can vote separately by age, but there would have to  
17 be some compelling physiologic reasons for that.

18 Any general discussion?

19 Dr. Parker, Dr. Will Shrank and then  
20 Dr. Newman. Dr. Shrank.

21 WILL SHRANK: Just a suggestion on the  
22 labeling of combination products, it's clear that

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1 frequently patients and families don't know what's  
2 in them and I would suggest that any combination  
3 product have some sort of label on it that says do  
4 not take with any other cough or cold medicine.

5 MARY TINETTI: I think that's our next  
6 question, we haven't gotten there yet, that's B, but  
7 hold that thought, thank you.

8 Dr. Newman.

9 ANN McMAHON: Yeah, I just wanted to  
10 mention that on the serious review of errors,  
11 looking at the serious reports, that over 75 percent  
12 of the serious reports were related to combination  
13 use.

14 MARY TINETTI: So your point is that  
15 they're at least as common as their prevalence of  
16 their use?

17 ANN McMAHON: Well I, I don't know about  
18 denominators, you know, because we don't, we didn't,  
19 we don't have direct evidence of the denominators  
20 based on this database, but I just wanted to point  
21 out that they were, that the serious adverse events  
22 in this particular study were frequently with  
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1 combination product.

2 MARY TINETTI: I think if industry has a  
3 short response to that, actual data with numerators  
4 and denominators.

5 MS. KUFFNER: Yes, slide on, please, we  
6 didn't get a chance to discuss this yesterday but we  
7 do have reporting rates for the single ingredient  
8 and the combination products and you see those  
9 reporting rates up there broken out in the different  
10 age groups. And what you do see is that reporting  
11 rates for both single and combination ingredients  
12 were low, and let me remind you, these were  
13 reporting rates for a million units distributed and  
14 what you see is you have a similar rate for a single  
15 ingredient and combination products and these are  
16 based upon distribution data. And again, this is  
17 out of the McNeill database.

18 MARY TINETTI: Thank you. Dr. Neill.

19 RICHARD NEILL: I'm curious to hear from  
20 the pediatricians on the panel with regard to the  
21 actions that you take when patients come to you as a  
22 result of recommendations on the label saying ask  
0335

1 your doctor, given, you know, my experience that I  
2 never recommend combination products and in those  
3 rare instances where I in my mind begin to consider  
4 it have to add up now which one was that and is that  
5 still the active ingredient and how can I find that  
6 information from the drug store that they're going  
7 to go to, is that product going to be available.  
8 This is a phenomenally difficult process for me as a  
9 prescribing clinician, is it different for you folk,  
10 do you ever recommend combination products?

11 ROBERT DAUM: I can answer in a word,  
12 no. No.

13 JESSE JOAD: And I would have to say



14 yes, that there are, that drugs are hard to give to  
15 children and, and when combinations come along that  
16 are prescription drugs where I know I want to give  
17 both of them, I'm very happy to have a combination,  
18 so combinations do make a difference in adherence  
19 for children in my opinion.

20 ROBERT DAUM: But he's asking about cold  
21 and cough combinations.

22 JESSE JOAD: Just for cold and cough,  
0336

1 yes, and then I can't, you know, I can't tell you,  
2 although I could see the, if the drugs work, which  
3 I'm not sure they do, they each do something  
4 different and some of them have such a short half  
5 life you have to give them every four hours and if  
6 they're ever going to work you probably would have  
7 to view them as a combination. And if the safety  
8 data in our big safety study turns out that they're  
9 just as safe, then I would be in favor of  
10 combinations.

11 RICHARD NEILL: Well this, to me, gets  
12 to the issue of Dr. Daum's comment regarding, you  
13 know, just cutting to the chase and using single  
14 data discussion and vote that we've taken. If  
15 there's a difference for me, I think that's the  
16 difference, that it's quantitatively and  
17 qualitatively a different phenomenon for me to  
18 consider combination products in my patients and if  
19 it's qualitatively different for me, how can it not  
20 be qualitatively different for patients, consumers  
21 walking in doing self-selection and as a result, I  
22 would be hard pressed to advise that we continue to  
0337

1 consider combinations for that 6 to 12 age group,  
2 that's all.

3 MARY TINETTI: Dr. Newman, did you have  
4 a --

5 TOM NEWMAN: Yeah, I think for me it's  
6 difficult because I, I don't think they're effective  
7 so I don't prescribe them at all, but I think that  
8 the combinations, my impression is that if they were  
9 shown to be effective, the combinations could end up  
10 also saving the consumers money because my

11 impression is that the, the packaging is such that  
12 most of the expenses for the, you know, the bottle  
13 and the space on the shelf and so on and that if,  
14 you know, it would probably be less expensive for  
15 consumers to get both their Acetaminophen and their  
16 Dextromethorphan or whatever in a single package, so  
17 I'm, I'm concerned about the cost and my concern is  
18 really I don't think there's strong evidence that  
19 they're, that they're less safe. They're certainly  
20 way more confusing.

21 MARY TINETTI: Dr. Rappley.

22 LAURA MARCIA RAPPLEY: I would have to  
0338

1 say that I would not usually recommend a combination  
2 for 6 to 12, but I have, don't feel that I've seen  
3 anything to make me say that they should not be  
4 available to people.

5 I don't think, and correct me if I'm  
6 wrong, but I don't think we've seen a risk higher in  
7 this age group and in fact some of the adult data  
8 shows that combinations are more effective.

9 So for me it's in that same, I'm  
10 thinking about this issue the same way I'm thinking  
11 about a need for better studies and a certain time  
12 frame in which we might allow that and ask the  
13 companies to come back and present that to us.

14 MARY TINETTI: Right, which I think was  
15 Dr. Daum's point that when we word this question,  
16 we'll certainly have to word it similar to the  
17 limitations we've put on the other question.

18 Dr. Shrank.

19 WILL SHRANK: Yeah, I think it's  
20 actually easier to take, so I -- the risk I think is  
21 when a patient or a family buys three or four  
22 different medicines and are trying to dose them all

0339

1 simultaneously, so I bet there's a safety advantage  
2 in some cases of using the combination product.

3 MARY TINETTI: Any further discussion?

4 So going back to Dr. Daum's point, we, I  
5 guess it probably might be good to vote on this by  
6 the age, do we need to do the under 2? I think that  
7 under 2 we've said no for everything so there's no

8 use in doing that. So I think it was the split vote  
9 where the 6 to the 12, so for children between 2 to  
10 6, should marketing of combination of products be  
11 allowed for children, and I think we limited it for  
12 the next three years until the efficacy studies are  
13 completed, yes or no.

14 Those who would say yes, raise your  
15 hand. So the question is should marketing of  
16 combination products be allowed for children between  
17 2 and less than 6 for the next three years, pending  
18 efficacy studies and safety studies, those in favor?

19 LAURA MARCIA RAPPLEY: I want to point  
20 out that the previous question was not be allowed so  
21 when we look back on our previous votes, that would  
22 be --

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1 MARY TINETTI: So you want to --

2 CHARLIE GANLEY: Well I think you're  
3 taking it too far in terms of the immediacy of it  
4 and this is more, you know, if we're going to  
5 propose a regulation, it's more geared towards that  
6 and it was based on the recommendations in one of  
7 the reviews is that should there be limits on what  
8 combination products can be used in and the main  
9 issue of concern has been is that you may have the  
10 same ingredient on two different products, but the  
11 symptoms on the front of the panel are different.

12 There's a lack of consistency there and  
13 so you have this use of two products because it may  
14 be taking it, the emphasis on one product may be  
15 cough, the emphasis on another product may be stuffy  
16 nose, yet they both contain Pseudoephedrine or  
17 something because it's a combination product and  
18 that's where, so I think the --

19 MARY TINETTI: Some of that will come  
20 out I think in our next point, the labeling  
21 question, I think.

22 CHARLIE GANLEY: Yeah, but the interest

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1 is more on what is the long-term view rather than  
2 what to do in the next three years.

3 MARY TINETTI: Well I think the  
4 long-term view is we've already answered, we want

5 efficacy studies, I think we've already answered,  
6 answered that question. I think, I think the  
7 question here is if we say yes, I think it's still  
8 pending results of efficacy studies.

9 CHARLIE GANLEY: So if, you're  
10 comfortable with if they have efficacy studies and  
11 somehow we improve the labeling that's going to  
12 decrease the number of misdosing, because that's  
13 where some of the problem seems to be occurring with  
14 these multiple ingredient products, that you would  
15 possibly be comfortable with that --

16 MARY TINETTI: Well I think we, it's  
17 more the opposite, that we would not be -- if  
18 there's no -- yes, yes, this is, this is predicated  
19 on the fact that there's clearly efficacy data,  
20 would we be comfortable with, with combination  
21 products, correct.

22 CHARLIE GANLEY: That's the question we  
0342

1 need --

2 MARY TINETTI: Okay.

3 CHARLIE GANLEY: -- the answer on, we  
4 don't need it, we don't need the immediacy question.

5 MARY TINETTI: Okay, so is everybody  
6 clear on that question.

7 Dr. Daum, you seem not --

8 ROBERT DAUM: I guess I'm not and I  
9 apologize. We voted before on the single agents, if  
10 I understood the procedure correctly, without the  
11 efficacy part in the question and so I'm a little  
12 concerned that we're now voting on the combination  
13 for the same two age strata with the efficacy stuff  
14 in the question and we might end up with an  
15 internally inconsistent view here where we say we  
16 can't, we don't want single agents sold but we --

17 MARY TINETTI: I don't think we voted  
18 specifically on, it was not, our previous vote was  
19 on the products with these ingredients, we did not  
20 specify whether there were single ingredient or  
21 multiple ingredient.

22 ROBERT DAUM: Oh, okay.

0343

1 CHARLIE GANLEY: I think the way that

2 you have to look at it is we're going to have to  
3 write a proposed rule, okay, so if we come out and  
4 say that there shouldn't be combination or  
5 multi-ingredient products for children less than 6  
6 years of age, unless we get some compelling data  
7 that they can be dosed correctly and, you know, go,  
8 because I think it is a little more complicated to  
9 use multi-ingredient products than it is to use  
10 single ingredient products, okay.

11 So, you know, I'm thinking of, you know,  
12 what is it we have to put out there that they're  
13 going to have to respond to that will force them to  
14 provide data that gives us a comfort level that  
15 we're comfortable with these multi-ingredient  
16 products.

17 It doesn't have to apply to less than 6,  
18 it could be all, for children 12 and under, okay,  
19 and it's really this concept of, you know, obviously  
20 if he have efficacy data that supports, you know,  
21 that these products work and, you know, they, we can  
22 combine these two and we think they'll work, but you

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1 still have the problem with misdosing that we have  
2 to get.

3 And, you know, so there have to be some  
4 data for us to say that you need to provide us with  
5 data, whether it be consumer behavior data or some  
6 other data, you know, that makes us feel comfortable  
7 that these products, these combination  
8 multi-ingredient products can be used correctly in  
9 children, whether it's labeling that needs to be  
10 done or some other, that's really what the heart of  
11 it is and to me it's that when we go to propose this  
12 in a rule, the proposal may say that  
13 multi-ingredient products shouldn't be provided, you  
14 know, for children less than 12 years of age unless  
15 something.

16 RUTH PARKER: Charlie, is it possible to  
17 look back and say that you actually would need data  
18 like the kind that could be attained in label  
19 comprehension and actual use, could that be a  
20 reasonable thing for the kind of thing we do with  
21 other over-the-counter products, to say because of

22 concerns about the ability to safely self-diagnose

0345

1 and administer combination products for cough and  
2 cold in the outpatient setting for this age group,  
3 we recommend label comprehension and actual use  
4 studies that demonstrate adequate label  
5 understanding and actual use of combination  
6 products?

7 CAROL HOLQUIST: Hi, Carol Holquist,  
8 yeah, that's exactly what we would look for because  
9 a lot of the errors that we've seen are that people  
10 just don't know, they're going by symptoms, not by  
11 active ingredient, so they buy these multiple  
12 products by symptom alone and don't know what  
13 they're getting and they get into trouble.

14 MARY TINETTI: Okay. Dr. Calhoun.

15 WILLIAM CALHOUN: Thanks. So I think  
16 there's one other consideration here which is that  
17 with combination products, there is the potential  
18 for kids to get medication that they don't actually  
19 need because the marketing might be a brand name  
20 something and brand name something and then brand  
21 name max that has everything in it and so mom or dad  
22 will pick up the brand name max because that must be

0346

1 the best and, you know, the kid might only need one  
2 or two of the components and I guess that parents  
3 aren't reading the fine print as carefully as  
4 perhaps they might in order to sort out exactly what  
5 their child needs.

6 So I think that's my level of concern  
7 about the multiple combination products.

8 MARY TINETTI: And I, I think as we vote  
9 on this we need to weigh, again, that I think  
10 clearly there's advantages and disadvantages and the  
11 question are do the advantages outweigh the  
12 disadvantages. I think we may be able to address  
13 that a little bit in the next question, too, because  
14 they specifically ask us about the number of  
15 ingredients and certainly the labeling issues.

16 So, so, Charlie, would this be a  
17 reasonable question that would be useful to you,  
18 assuming that the clinical trials support efficacy

19 and safety in this, in this age group of these  
20 ingredients, should marketing of combination  
21 products be allowed for children and I think we will  
22 break it down into the age groups of 2 to less than  
0347

1 6; is that -- okay. And then we'll do it from 6 to  
2 12.

3 CHARLIE GANLEY: Right, and again, it  
4 gets back to what the original intent of the  
5 reviewers was that we need to understand how these  
6 products can be marketed safely and, you know, we  
7 understand there may be some benefit for  
8 multi-ingredient.

9 MARY TINETTI: Could we do a yes or no  
10 and then if the question is, if the question is no,  
11 then it's a moot point. If the question is yes,  
12 then we can discuss ways to make it safer; is that,  
13 does that -- is that okay? Okay.

14 The question is just a yes or a no,  
15 because if it's a no, then label comprehension  
16 becomes a moot point. If it's a yes, then we'll  
17 address issues that will make it safer, including  
18 labeling.

19 WILL SHRANK: Just a clarification, so  
20 we're assuming that the drugs are effective for  
21 this?

22 MARY TINETTI: Right, my question was  
0348

1 assuming that the drugs are shown to be effective,  
2 should marketing of combination products be allowed  
3 for children between 2 and less than 6.

4 CHARLIE GANLEY: It may be easier to  
5 just, rather than have it as a two-parter, just try  
6 to capture it in one and I think Ruth was trying to  
7 head that way, is that if there, should, should --  
8 for the marketing of combination multi-ingredient  
9 products in children, should there be data to  
10 support the ability of the parent or caregiver to  
11 identify the products and ingredients and things  
12 like that, because it, you know, if it's a yes or  
13 no, if someone, for example, that we, there's  
14 efficacy established and then they through consumer  
15 use or consumer labeling studies or actual use

16 studies show hey, really, parents really understand  
17 now because we've done this, this, this, this to the  
18 packaging, we have standardized everything and they  
19 really understand how to use these, that eliminates  
20 the problem.

21 MARY TINETTI: So let's work on the  
22 wording here then.

0349

1 Assuming that studies show effectiveness  
2 and safety, should marketing of combination products  
3 be allowed for children if they are found to, to  
4 finish the question, Dr. Ruth.

5 RUTH PARKER: I would say should  
6 marketing of combination products be allowed for  
7 children 2 to --

8 MARY TINETTI: Less than 6.

9 RUTH PARKER: Less than 6 pending label  
10 comprehension and adequate use studies, done in the  
11 right order I might add, you have to use the right  
12 label in the actual use, you can't do them in the  
13 reverse order, so adequate results of label  
14 comprehension and actual use studies that  
15 demonstrate acceptability to self-select safe and  
16 effective use of over-the-counter products.

17 CHARLIE GANLEY: You just broke your own  
18 rule.

19 RUTH PARKER: I'm changing it to make it  
20 simple.

21 MARY TINETTI: Are you going to help us  
22 clarify or make it more confused, Dr. Daum?

0350

1 ROBERT DAUM: Well you'll have to tell  
2 me what you think. There's 800 products on the  
3 market now we've learned in the last day and a half  
4 and the 800 are there because every combination  
5 imaginable is being sold.

6 I'm looking at a world now, I think I  
7 finally understood, we're looking at a world where  
8 the efficacy of individual components is  
9 demonstrated, now should we sell them in  
10 combination. I'm not sure we have to address that  
11 now because I'd like to see the efficacy data and  
12 see what they look like, first, but I'm a little



13 concerned about going back to a world where there's  
14 800 products on the shelf.

15 So I don't want to, I don't think we  
16 have to take a rigid stand right now because the  
17 efficacy data that we'd love to have and wouldn't  
18 consider moving forward without are not there, so  
19 think about the shelf in the Walgreens and the 800  
20 products and that's what we're voting for, without  
21 any data at all about the efficacy.

22 CHARLIE GANLEY: Yeah, I'm not sure if  
0351

1 you didn't have multi-ingredient products that you  
2 wouldn't have 800 single ingredient products.

3 MARY TINETTI: You might have 2,400.

4 CHARLIE GANLEY: Yeah, and so I think  
5 the one way is assuming that efficacy data is  
6 provided, should there, should there be additional  
7 data to support the correct use of the combination  
8 products, okay.

9 TOM NEWMAN: To finish your sentence,  
10 should there be additional use before they are  
11 allowed to market them, that's what you mean.

12 CHARLIE GANLEY: Yeah, consumer use  
13 studies and we understand that they can be used  
14 correctly.

15 MARY TINETTI: Dr. Bier.

16 DENNIS BIER: Well I don't, I don't see  
17 them -- I see two things here, one is should you  
18 have combination products at all, I mean we haven't,  
19 that was the first level of our question. The  
20 second is if you do, should you make sure that  
21 they're done properly.

22 CHARLIE GANLEY: But again, it becomes a  
0352

1 data issue. If they establish that it's efficacious  
2 and they provide data that they've done  
3 standardized -- you know, they've standardized  
4 dosing, they've standardized the container, they've  
5 improved the labeling so that consumers understand  
6 it, there's ways to do studies to understand  
7 whether, you know, how that's going to work.

8 ROBERT DAUM: I appreciate that, but  
9 that comes if we, you know, I think there's a

10 question first, some of us don't necessarily believe  
11 there should be combination products.

12 CHARLIE GANLEY: Okay, that's fine.

13 ROBERT DAUM: That's the first level of  
14 the question. If we don't believe there should be  
15 combination products, we don't have to worry about  
16 how you label them.

17 CHARLIE GANLEY: Okay, that's fine.

18 MARY TINETTI: Well then you would, then  
19 you would vote no. There was a proposal here to  
20 defer this question until the efficacy data are in,  
21 but I guess my question to you, Charlie, I mean some  
22 of these changes, some of the requirements to do the  
0353

1 labeling and comprehension could actually occur now,  
2 right, they could occur simultaneously, potentially,  
3 with the efficacy, so that would be a potential  
4 reason for addressing this now.

5 So, could you tell us again your, your  
6 wording of this question.

7 CHARLIE GANLEY: Well, I appreciate  
8 Dr. Bier's view and, you know, in that situation he  
9 would be voting no because there's no data that  
10 would support his, so again, it goes with the  
11 assumption that if there is efficacy, should there  
12 be additional data to support the use of combination  
13 products, consumer data to support the use of  
14 combination products.

15 So it's not only just establishing  
16 efficacy and, although I understand you could say  
17 that, no, I don't, the no answer could mean no, I  
18 don't need additional data.

19 ROBERT DAUM: Well I'm just looking at  
20 your question here, A, should marketing of  
21 combination products be allowed for children, yes or  
22 no, that's the one I want to answer first.

0354

1 CHARLIE GANLEY: Okay, we can do that.

2 MARY TINETTI: Very good, let's do that  
3 first, then.

4 Should marketing of combination products  
5 be allowed for children, we will, there was a  
6 sentiment for breaking it down to age so we will do

7 that, from 2 to less than 6. All those in favor?

8 UNIDENTIFIED SPEAKER: Are we assuming  
9 the drugs are effective?

10 MARY TINETTI: Yes, assuming the drugs  
11 are effective, I think we agreed on that wording.  
12 We'll start with Dr. Calhoun.

13 WILLIAM CALHOUN: Calhoun, yes.

14 PRESCOTT ATKINSON: Prescott Atkinson,  
15 yes.

16 JESSE JOAD: Jesse Joad, yes.

17 ROBERT TAYLOR: Robert Taylor, yes.

18 MARIE GRIFFIN: Marie Griffin, yes.

19 JAN HEWITT: Jan Hewitt, yes.

20 WILL SHRANK: Will Shrank, yes.

21 RALPH D'AGOSTINO: Ralph D'Agostino,  
22 yes.

0355

1 BEN CLYBURN: Ben Clyburn, yes.

2 RUTH PARKER: Ruth Parker, yes.

3 MARY TINETTI: Mary Tinetti, yes.

4 AVITAL CNAAN: Avital Cnaan, yes.

5 AMY CELENTO: Amy Celento, yes.

6 JEFF ROSENTHAL: Jeff Rosenthal, yes, if  
7 safety and efficacy is demonstrated.

8 MARY TINETTI: Yeah, that's part of the  
9 question.

10 Okay, those no?

11 LAURA MARCIA RAPPLEY: Dr. Rappley, I  
12 vote no because I cannot separate the question from  
13 the previous vote.

14 MARY TINETTI: Very good. Any other  
15 nos?

16 RICHARD NEILL: Richard Neill, no.

17 DENNIS BIER: Dennis Bier, no.

18 MIKE COHEN: Mike Cohen, no.

19 MARY TINETTI: Mike Cohen, no.

20 Any abstentions?

21 SEAN HENNESSY: Sean Hennessy, abstain.

22 ROBERT DAUM: Robert Daum, abstain.

0356

1 TOM NEWMAN: Tom Newman, abstain.

2 MARY TINETTI: Okay, so the, the  
3 question while we are adding up here is assuming

4 that these ingredients are proven safe and  
5 effective, should marketing of combination products  
6 be allowed for children between 6 and less than --  
7 between 2 and less than 6. What's that?

8 DARREL LYONS: I'm missing Daum and  
9 Dure.

10 MARY TINETTI: Daum was an abstention,  
11 Leon Dure is gone.

12 DARREL LYONS: Okay. For the record,  
13 there was 14 yes, 4 no and 3 abstains.

14 MARY TINETTI: I think we'll do the next  
15 age group before we add the next point, so should  
16 marketing of combination products be allowed for  
17 children, assuming they are proven safe and  
18 effective, should marketing of combination products  
19 be allowed for children between 6 and less than 12.

20 All in favor, raise your hand. Okay.  
21 Starting with Dr. Calhoun.

22 WILLIAM CALHOUN: Calhoun, yes.

0357

1 PRESCOTT ATKINSON: Prescott Atkinson,  
2 yes.

3 JESSE JOAD: Jesse Joad, yes.

4 ROBERT TAYLOR: Robert Taylor, yes.

5 MARIE GRIFFIN: Marie Griffin, yes.

6 JAN HEWITT: Jan Hewitt, yes.

7 WILL SHRANK: Will Shrank, yes.

8 RALPH D'AGOSTINO: Ralph D'Agostino,  
9 yes.

10 BEN CLYBURN: Ben Clyburn, yes.

11 RUTH PARKER: Ruth Parker, yes.

12 MARY TINETTI: Mary Tinetti, yes.

13 AVITAL CNAAN: Avital Cnaan, yes.

14 AMY CELENTO: Amy Celento, yes.

15 JEFF ROSENTHAL: Jeff Rosenthal yes,  
16 with the same stipulation.

17 MARY TINETTI: Yes, that's part of the  
18 question.

19 Okay, for nos, Dr. Rappley, did you --

20 LAURA MARCIA RAPPLEY: I'm voting yes,  
21 Rappley yes.

22 MARY TINETTI: Okay, Rappley yes.

0358

1 Okay, nos?

2 MIKE COHEN: Mike Cohen, no.

3 DENNIS BIER: Dennis Bier, no.

4 RICHARD NEILL: Richard Neill, no.

5 MARY TINETTI: Abstentions?

6 SEAN HENNESSY: Sean Hennessy abstain.

7 ROBERT DAUM: Robert Daum, abstain.

8 TOM NEWMAN: Tom Newman, abstain, I just  
9 don't feel like I have enough data to say.

10 MARY TINETTI: Okay, so the question was  
11 assuming the products, or the ingredients are proven  
12 safe and effective, should marketing of combination  
13 products be allowed for children between 6 and less  
14 than 12 and the vote?

15 DARREL LYONS: 15, 15 yes, 3 no, and 3  
16 abstentions.

17 MARY TINETTI: And so now we're asked to  
18 say assuming that, that the marketing is -- well I  
19 guess the, clarify maybe, Dr. Parker, again, the  
20 wording that you want for the follow-up question.

21 RUTH PARKER: So it should be that, do  
22 you want the question -- should label comprehension

0359

1 and actual use studies for combination products be  
2 done. How's that?

3 MARY TINETTI: Okay. Happy to say no to  
4 that, right.

5 Dr. Newman.

6 TOM NEWMAN: Should they be done as a  
7 prerequisite before the combinations could be  
8 marketed, that's what you mean.

9 MARY TINETTI: Thank you, okay. Okay.

10 So we understand what the question is,  
11 should labeling and comprehension and actual use  
12 studies be done prior to allowing marketing for  
13 combination products.

14 Okay. All in favor, requiring,  
15 requiring the studies? Okay. We'll start over  
16 here, Dr. Hennessy.

17 SEAN HENNESSY: Sean Hennessy, yes.

18 JEFF ROSENTHAL: Jeff Rosenthal, yes.

19 ROBERT DAUM: Robert Daum, yes.

20 AMY CELENTO: Amy Celento, yes.

21 RICHARD NEILL: Richard Neill, yes.

22 AVITAL CNAAN: Avital Cnaan, yes.

0360

1 DENNIS BIER: Dennis Bier, yes.

2 MARY TINETTI: Mary Tinetti, yes.

3 RUTH PARKER: Ruth Parker, yes.

4 BEN CLYBURN: Ben Clyburn, yes.

5 RALPH D'AGOSTINO: Ralph D'Agostino,

6 yes.

7 WILL SHRANK: Will Shrank, yes.

8 JAN HEWITT: Jan Hewitt, yes.

9 MARIE GRIFFIN: Marie Griffin, yes.

10 ROBERT TAYLOR: Robert Taylor, yes.

11 JESSE JOAD: Jesse Joad, yes.

12 PRESCOTT ATKINSON: Prescott Atkinson,

13 yes.

14 MIKE COHEN: Mike Cohen, yes.

15 TOM NEWMAN: Tom Newman, yes.

16 BILL CALHOUN: Bill Calhoun, yes.

17 MARY TINETTI: Dr. Rappley?

18 LAURA MARCIA RAPPLEY: Yes.

19 MARY TINETTI: Okay, any nos? Any

20 abstentions? Okay.

21 RUTH PARKER: A comment, I think that

22 these label comprehension and actual use studies

0361

1 actually represent what I will call a golden

2 opportunity to advance our ability to set forth the

3 language that could be used and adopted in a

4 standard if we're able to come to that language and

5 demonstrate adequate understanding of the targeted

6 consumers and their ability to self-select based on

7 this language. And the labeling comprehension study

8 could also target the ability to look at the

9 consumer's ability to act appropriately on warnings,

10 in other words, not self-select to use it if your

11 child is under 2, so the language of that warning,

12 the symbol that draws attention to someone attuned

13 to that symbol and the opportunity is really here to

14 make tremendous improvement in labels and in setting

15 standards.

16 The other thing would be to look at the

17 dosing device, perhaps, in the label comprehension

18 in actual use and not just, can you, can you tell us  
19 that you could take it correctly, but can you  
20 demonstrate it using the new standard dosing device.

21 So these are options that would be made  
22 available and would represent an enormous  
0362

1 opportunity to improve public health and I think  
2 what require courageous leadership but perhaps the  
3 type that the industry has, has stated that they're  
4 willing to take on. So I think it's a great  
5 opportunity.

6 MARY TINETTI: Thank you. Dr. Calhoun,  
7 did you --

8 WILLIAM CALHOUN: Yeah, so I guess the  
9 outcome here would be the proportion of people who  
10 took the medication correctly or et cetera.

11 Would it be useful in that sort of a  
12 study to have a control group which would be  
13 comprised of people who read the label on a single  
14 component product and I guess the issue here is, for  
15 me is whether combination products are more or less  
16 confusing than single agent products for consumers  
17 and in order to get that notion, you almost have to  
18 gather the same kind of data with single agent  
19 products. I think that would actually be pretty  
20 useful.

21 RUTH PARKER: The question that is posed  
22 here about indications for each ingredient appearing  
0363

1 on the label and the ability to understand that and  
2 sort of the clarity of understanding an ingredient  
3 and this, this issue of not taking multiple products  
4 with the same ingredient and even ingredient  
5 category and the overlay of that is going to be very  
6 important.

7 I think to answer the question it's  
8 going to take a narrow focus on a well-designed  
9 label comprehension study that could, here again,  
10 set a great example for the kind of work that we  
11 want to do on all over-the-counter products and a  
12 great example and lead from industry on this would  
13 be, would be very welcome to the world of OTCs.

14 ROBERT DAUM: I think it might be a very

15 nice thing to put into the record for this meeting  
16 that at least the Pediatric Advisory Committee, and  
17 perhaps both committees, would like to sit and  
18 reflect on the data when the efficacy studies are  
19 done and revisit this issue so they'd have an  
20 opportunity for an update.

21 MARY TINETTI: Fair enough, you're  
22 invited back. I think that's an excellent idea.

0364

1 The -- yes, Dr. Joad.

2 JESSE JOAD: With regard to the single  
3 dose versus the multiple combination products,  
4 somehow to really get at the whole issue you'd have  
5 to see how a parent did over a day -- a caretaker  
6 did over a day giving single ingredients, three  
7 different single ingredients all at once at least  
8 three times a day and how often were they successful  
9 at doing it and not making mistakes with multiple  
10 giving of the drug versus somebody who, I mean that  
11 has to go along with the label comprehension because  
12 that's another place of error or lack of being able  
13 to administer a drug.

14 MARY TINETTI: Right, I think that's the  
15 actual use part of it and I think you're right.  
16 Okay. We're asked to comment upon if, if yes, we  
17 agree that there can be marketing of the combination  
18 products, should the number of active ingredients in  
19 combination products be limited in order to reduce  
20 the use of overlapping ingredients in different  
21 products.

22 BEN CLYBURN: Shouldn't the actual use

0365

1 studies and label comprehension tell us that, I mean  
2 it should tell us how many ingredients the public  
3 can reasonably take in.

4 MARY TINETTI: So you're saying that we  
5 really can't address that question as of yet, that  
6 it really depends on the studies, okay.

7 Does anybody else have any other comment  
8 on that? Dr. Atkinson.

9 PRESCOTT ATKINSON: Yeah, I'd like to  
10 propose at least for consideration that we consider  
11 pulling antihistamines out of, out of these



12 preparations just because they have a, they have a,  
13 you know, we're really talking about congestion and  
14 cough, mainly, and there we're really looking at the  
15 anti-cholenergetic, you know, side effects of the  
16 first generation antihistamines as a sort of adjunct  
17 treatment anyway and they have different toxicities,  
18 they've been noted to have different potential for  
19 overdose, they're used for sedation and maybe that  
20 would reduce some of this toxicity issue.

21 MARY TINETTI: So you're actually  
22 proposing that antihistamines not be allowed as part  
0366

1 of combination --

2 PRESCOTT ATKINSON: If we were going to  
3 restrict any of the combo medicines, it seems like  
4 that would be the one to try to think about pulling  
5 out.

6 MARY TINETTI: Okay, we may want to come  
7 back and vote on that specifically. Okay.

8 Dr. D'Agostino and then Dr. Shrank.

9 RALPH D'AGOSTINO: Yeah, I'm a big  
10 advocate of actual use studies but you have to  
11 careful in terms of what you can get out of them and  
12 to look at the combinations, you know, how many  
13 ingredients can you have, you oftentimes do the  
14 actual use studies that there's something that's  
15 being planned to be put forth and not what's the  
16 maximum that you can get out of it, you know, can  
17 you put seven ingredients in and so forth.

18 So while conceptually you can use the  
19 actual use studies, I think the, and I'm not asking  
20 that we take a vote, but I think the interpretation  
21 of how many ingredients can be in it, it's not going  
22 to be a simple thing to just say we'll let the  
0367

1 actual use studies determine that for us.

2 MARY TINETTI: Charlie.

3 CHARLIE GANLEY: I'll just mention now  
4 that as per the regulations, you can only have four  
5 ingredients in it already and so I think this was  
6 trying to get out should it be less than that, so,  
7 or again, is it based on data that --

8 MARY TINETTI: Okay, thank you.

9 Dr. Shrank.

10 WILL SHRANK: It seems to me that if  
11 there's ever a combination product, it should have a  
12 label on it that says you shouldn't take any other  
13 cough or cold medicines because the marginal benefit  
14 of adding a different product is probably relatively  
15 small to an already combination of products and the  
16 likelihood of overdosing or having a problem I think  
17 is greater and it raises lots of more safety  
18 problems I think than benefits.

19 MARY TINETTI: So you're suggesting on  
20 the label should specifically state that do not --  
21 take only one, do not take any other --

22 WILL SHRANK: If you're taking a  
0368

1 combination, if it's a combination, right, don't  
2 take any other cough and cold medicine.

3 MARY TINETTI: Okay, that's a good  
4 point. Okay.

5 Dr. Neill.

6 RICHARD NEILL: We've heard data, it's  
7 Richard Neill, we've heard data that some consumers  
8 don't buy ingredients, they buy symptom relief and I  
9 think that in the same way of having multiple  
10 individual ingredients available raises the specter  
11 of having six bottles for multiple concentrations,  
12 et cetera, I think it's also the case that it may  
13 occur with combination medications, I would wager  
14 actually that it does occur now with multiple  
15 ingredient combination medication that in shopping  
16 for symptom relief a parent presents, and this is  
17 the economic question, I have five kids and of the  
18 five, Johnny and Suzie have cough, but Joey has a  
19 stuffy nose. And as I tally up the symptom relief  
20 among the possible combination medications what  
21 might I get and how is that going to factor in given  
22 that Johnny just started right tackle for the

0369

1 football team, although he's 12, and Suzie's not  
2 quite yet to kindergarten and how are those doses  
3 going to change, especially if I've got 10 dollars  
4 in my pocket and I can get this for 6 and that other  
5 for 14.

6 And so this is not in any way to  
7 minimize what I think are some real concerns about  
8 having only single entity ingredients available, but  
9 rather to lay out there what I think are equally, if  
10 not more, compelling concerns that I have about  
11 putting combination medications out in a market  
12 where a label comprehension followed by actual use  
13 studies.

14 (Please pardon the interruption, your  
15 conference contains --)

16 RICHARD NEILL: Those label  
17 comprehension and actual use studies are commonly  
18 going to look at study units in one of -- for that  
19 one patient, not households, not grouped family  
20 members, certainly not communities that trade across  
21 the back fence. I've got some, you know,  
22 ingredients X from last month but could I trade you

0370

1 for and yet I'm confident that economy exists  
2 somewhere.

3 MARY TINETTI: I think we had one, one  
4 suggestion here in terms of a votable question is  
5 whether antihistamines should not be allowed as part  
6 of combination products.

7 Dr. Atkinson, are you interested or  
8 actually voting on that proposal? Okay.

9 Okay, so the question is here assuming  
10 that combination products are allowed and are shown  
11 to be safe and effective, should antihistamines not  
12 be allowed to be part of combination products.

13 Dr. Calhoun.

14 WILLIAM CALHOUN: Could I just comment  
15 that once again for an indication other than cough  
16 and cold, that is for allergic rhinopathy, that  
17 combination --

18 MARY TINETTI: All of our discussion is  
19 assuming that we're just talking about a cough and  
20 cold, cold indications.

21 WILLIAM CALHOUN: But again, this goes  
22 to the question if it's disallowed, does that mean

0371

1 that that product disappears from the shelf unless  
2 it's labeled something something allergy or

3 whatever.

4 MARY TINETTI: Okay, fair enough.

5 CHARLIE GANLEY: We don't know the  
6 answer to that question, but I think the best way to  
7 do it is to get a sense as to what the concern is  
8 about combining an antihistamine with a  
9 decongestant, if you think it's okay for the  
10 allergic rhinitis, you have a discomfort level with  
11 the common cold, I think you can opine on that,  
12 but -- but again, I'm still not clear as to what,  
13 if, if the antihistamine is found to be effective in  
14 the treatment of a common cold as a single  
15 ingredient and then the decongestant is also found  
16 to be effective for the treatment of the common cold  
17 as a single ingredient, and combining them doesn't  
18 seem to add any additional risk, I'm not sure why  
19 you would ban that specific combination.

20 To me it's a data-driven issue, too.

21 WILLIAM CALHOUN: Yeah, that's not my  
22 proposal. I was asking a question why not that --

0372

1 CHARLIE GANLEY: Yeah, I don't know why.

2 MARY TINETTI: Did you want to address  
3 that, Dr. Atkinson?

4 PRESCOTT ATKINSON: I can just say that  
5 as far as for use in the common cold it seems like  
6 the indications are fairly minimal in kids,  
7 certainly for allergic rhinitis, you know,  
8 decongestants and antihistamine, you know, both may  
9 be helpful.

10 Looking through the recommendations from  
11 the FDA committees, all of them recommended looking  
12 at eliminating or reducing the number of combo  
13 medications, so I thought it would be worthwhile  
14 discussing and see what other peoples opinions about  
15 it would be.

16 MARY TINETTI: Certainly addresses the  
17 concern of the potential overuse of the medication  
18 for sedation rather than for cold symptoms and that  
19 would be, that would be one reason for disentangling  
20 certainly anti-cholenergic effects in general are,  
21 that would be one compelling reason for doing that.

22 Dr. Newman.

0373

1 TOM NEWMAN: Yeah, it just seems maybe a  
2 little premature to vote on this since we don't have  
3 the data for efficacy yet and if the antihistamines  
4 turn out not to be effective for the common cold,  
5 then we don't have to worry about they're effective  
6 in combinations.

7 MARY TINETTI: That's been the point of  
8 all the questions we're addressing here, these are  
9 all, I mean that's common to all of the questions  
10 that we've voted on today.

11 But this one potentially in general, so  
12 I'm certainly fine about deferring this particular  
13 vote, if you guys are okay about that. Okay.

14 The, we've lost one of our labeling  
15 people so until she comes -- I think she's coming,  
16 she's gone, gone. Oh, okay.

17 Well unfortunately we've lost our  
18 labeling person, so Dr. Shrank, the next question  
19 had to do with labeling changes that can improve  
20 safety of combination products and you had  
21 mentioned, you had mentioned a couple, if you want  
22 to just for the record.

0374

1 WILL SHRANK: Yeah, I, well I just  
2 mentioned one specific request, that all combination  
3 products have some sort of warning that says that  
4 you don't take it with any other cough or cold  
5 medication. Yeah, I don't have any other  
6 suggestions.

7 MARY TINETTI: There was a question,  
8 there was a question raised here whether there  
9 should be a direct linkage between the indication  
10 and the ingredient, should that be --

11 WILL SHRANK: Sorry, and one other thing  
12 that I, it certainly we have to do a better job of  
13 listing the names of the medications that are, both  
14 the generic and the --

15 MARY TINETTI: And linked to a specific  
16 symptom, okay.

17 Anything else? Dr. Hennessy.

18 SEAN HENNESSY: Sean Hennessy, I'm not  
19 sure I can endorse the proposal to label products

20 containing antihistamines with something like do not  
21 use to sedate your child, that sounds like labeling  
22 cans of whipcream to say do not suck the nitrous  
0375

1 oxide to get high.

2 I'm not sure that it will dissuade  
3 anyone from doing it and it may inform people who  
4 would do it about the possibility.

5 MARY TINETTI: Fair enough, well taken,  
6 okay.

7 Let me go back to, in the last couple of  
8 minutes here the question that I skipped and see if  
9 anybody has anything else they want to add.

10 Please discuss whether you believe, this  
11 is question 4, is that, question 4E, please discuss  
12 whether you believe the naming of the products  
13 contributes to consumer confusion and again, this is  
14 just a discussion question, we don't have to vote.

15 Dr. Cohen.

16 MIKE COHEN: I do think it presents a  
17 problem, it's not just with the cough meds but all  
18 OTC meds when there's a line extension. We heard  
19 Mr. Mannello mention the Dimetapp today. Originally  
20 that was Brompheniramine and there's several  
21 products now, none of them, or only a couple of them  
22 have Brompheniramine in them and I think it does

0376

1 cause confusion.

2 I'd like to see, again, you know, some  
3 of the things we've talked about, linking the  
4 ingredients with the purpose on the label in a more  
5 enhanced manner would help, but I do think it's a  
6 problem continuing to do this and wonder if there  
7 could be at least a moratorium at the very least and  
8 at the very least at least assuring that the  
9 original ingredient continues in that formula if  
10 that name is going to be used.

11 MARY TINETTI: Any other? Dr. Joad.

12 JESSE JOAD: I'm responding to your  
13 last, about the symptoms, one symptom I would  
14 recommend we not say is congestion because at least  
15 my impression is that that can mean runny nose,  
16 stuffy nose or gurgling out of the chest as it leads

17 three things that regular people will think means  
18 congestion, so I think it goes, you'll probably work  
19 on the best terminology, but that's not the right  
20 word.

21 MARY TINETTI: So you're suggesting  
22 congestion not be on the label?

0377

1 JESSE JOAD: Right, congestion is not a  
2 helpful word.

3 MARY TINETTI: Any other? Dr. Newman.

4 TOM NEWMAN: Yeah, I think this is  
5 clearly a huge cause for confusion and, you know, I  
6 guess what I'd suggest is that rather there having  
7 been a Tylenol, cold Tylenol, cough Tylenol, there  
8 would be, there could be McNeill cold medicine,  
9 McNeill fever reducer, McNeill and so on, but the  
10 generic name would be prominent because it is very  
11 disconcerting.

12 I just now found out that Sudafed,  
13 Sudafed PE is now phenylephrine, so, because you  
14 get, especially if you're used to the prescribing  
15 world where a brand name means a specific chemical  
16 and that's totally not the case in the OTC world  
17 where a brand name is for a product line and it's a  
18 big source of confusion.

19 MARY TINETTI: I think we all agree and  
20 I think we all have the same sentiments.

21 Let's see, Dr. Daum.

22 ROBERT DAUM: I think that's why it

0378

1 would be very helpful for this group to reconvene  
2 when we have efficacy data because some compounds  
3 will be efficacious, some won't. There's many  
4 issues that can be explored and discussed at that  
5 time and I think should be and I would really urge  
6 this to be a two-step process where we meet and  
7 discuss those results, efficacy trial results.

8 MARY TINETTI: Dr. Ganley, is that a,  
9 something that we can arrange, I mean that's going  
10 to be obviously several years from now, but it's  
11 duly noted that, okay. Okay.

12 Hopefully this will be our last comment,  
13 Dr. Rappley.

14 LAURA MARCIA RAPPLEY: I just agree with  
15 what the last two speakers said and so I have no  
16 further comment.

17 MARY TINETTI: You disagree?

18 LAURA MARCIA RAPPLEY: No, no, I do  
19 agree.

20 MARY TINETTI: Oh, you do agree, okay.

21 Okay.

22 All right, well I think with that, I

0379

1 think we can wrap this up and I want to thank all of  
2 you for two days of attention to a very important  
3 problem. I want to thank the FDA and the  
4 petitioners and the industry and the Committee and  
5 hopefully you all get home safe. Thank you.

6 (Meeting concluded 3:54 p.m.)

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0380

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Monica Voorhees