

1 flags, and that's why physicians are not advised to get
2 radiographs routinely in patients who present to the office
3 in the absence of significant trauma with new onset of low
4 back pain.

5 So certainly we've already accepted that
6 patients with new onset back pain can treat for 10 days
7 with acetaminophen or ibuprofen. The risk is no greater
8 presumably if they have spasm.

9 DR. BRASS: Yes, Dr. Hamilton?

10 MS. HAMILTON: I always love it when you
11 promote me to a doctor at these meetings.

12 (Laughter.)

13 MS. HAMILTON: A general observation. As you
14 pointed out numerous times, a common point of discussion
15 among the OTC Committee members, but I'd like to suggest
16 that the FDA at some point consider some general studies
17 that aren't specific to products or symptoms that help us
18 determine a consumer's general ability to self-diagnose.
19 This is a consistent question, and we tend to deal with it
20 on a per-product or a per-symptom kind of basis, and in the
21 absence of data on this, I have an instinct that most
22 consumers are probably more accurately tuned in to what's
23 wrong with them and what might be hurting them to at least
24 present in a reasonably helpful way initially to
25 physicians.

1 But we consistently don't have general research
2 and data on which to make some of those suppositions. So
3 just like I tend to ask general questions about how useful
4 inserts and package labels are, which we can't determine if
5 we don't have hard and fast data about consumer utilization
6 and the depth to which they're willing to go to get
7 educated, I think we need the same sort of basic
8 information about a lay person's ability to self-diagnose.

9 DR. BRASS: Yes, I would just endorse that
10 recommendation, and I think the FDA in many of these areas
11 has the opportunity to provide very important general data
12 that no sponsor is ever going to generate that would really
13 help the agency, but also the advisory committees advising
14 the agency. When we do these risk-benefit types of
15 subjective assessments, implicit in them always is what
16 percentage of the consumers are actually going to do what
17 they're supposed to do, and the risk-to-benefit changes
18 dramatically if you knew that consumers behaved in certain
19 prototypical kinds of ways. I think the absence of that
20 data is constantly crippling to the committee.

21 Yes, Dr. Harris?

22 DR. HARRIS: Just a minor note, though, that in
23 terms of self-diagnosis, certainly if one has a headache or
24 menstrual cramps, I think that that's self-diagnosable.
25 That's much easier than something like muscle cramps or

1 muscle spasm. This is really where I have some difficulty,
2 because there are certainly some conditions that I feel
3 relatively confident people can easily self-diagnose. This
4 one is, in my mind, in a separate category. So even with
5 the proper studies, we still may have some difficulty with
6 this.

7 DR. BRASS: Again, this goes back to how
8 consumers -- and as long as we're giving our editorials, I
9 will again say the editorial about ethnic diversity and
10 what these terms mean to different ethnic groups, because
11 it's vastly different in terms of what is common,
12 mainstream usage for what those same words will mean to a
13 Korean immigrant or other ethnic populations.

14 But again, it seems to me that if you knew that
15 when a consumer said "I have back pain," that in fact
16 independently you could say that 98 percent of them have
17 muscle spasm, that would relieve your concern. But I'm not
18 hearing any data set that looks like that, and it sounds
19 like we're all kind of just presenting our individual
20 anecdotal experiences.

21 DR. GANLEY: Are you asking that we generate
22 those studies or that the sponsor generate those studies?

23 DR. BRASS: Well, I think both Ms. Hamilton and
24 I were making a global, cumulative, four years worth of
25 experience generic comment, not about this indication, not

1 about this label, but about the paucity of information that
2 in general allows us to make predictive decisions about
3 consumer behaviors in the diagnosis and following
4 directions and obeying instructions and warnings type of
5 categories. I think it was a global thing, and I don't
6 think any sponsor is going to do it except under some very
7 specific categorical diagnosis type of situations.
8 Somebody's got to do it sometime if the information base is
9 going to get better.

10 Yes, Dr. Yocum?

11 DR. YOCUM: I guess going back to one of the
12 original questions from the FDA a little bit ago about this
13 mean difference versus categorical, I think we're focusing
14 that categorical may well be better, and I think we're kind
15 of saying that and focusing in on specifically back spasm,
16 neck spasm, which here is kind of handled globally. Gee, I
17 would love to see the separation of neck and back, aged
18 versus non-aged, and so on and so forth. That would give
19 me a better feeling, but we just don't have that data. I
20 share the FDA's concern that this rather mean response
21 score is very difficult to assess.

22 DR. BRASS: Yes, Dr. Koda-Kimble?

23 DR. KODA-KIMBLE: Well, I would be really very
24 interested in the study that you suggested, which is that
25 someone who self-diagnoses with back -- and the indication

1 here on the label is muscle spasm or strain. It's not just
2 spasm. How they respond to these agents based upon the
3 analysis that was -- because I am not convinced that a
4 patient is ever going to be able to diagnose spasm. I
5 mean, from what I'm hearing around the table. I think most
6 people can say, "I've got a crooked neck, a stiff neck,
7 acute back pain," or something like that, and then the
8 question is to what extent is this drug effective.

9 I was very impressed by the fact that of those
10 patients who self-referred into the 008/009 studies, only 6
11 percent were not included. That was impressive data to me.
12 So I do not think spasm -- anybody is going to ever be able
13 to indicate that a patient can self-diagnose spasm.

14 DR. YOCUM: Again, I am concerned about the
15 data that you just talked about, because it's not blinded
16 data, and the physicians obviously need to get patients in
17 the study. So during a lot of these studies, I'm not sure
18 I can trust that data at all.

19 DR. BRASS: Yes?

20 DR. LOVELL: The study you just proposed, or
21 the question just proposed, which is if you take patients
22 who would self-refer themselves to be put on this drug and
23 then just have them evaluate to see how many of them had
24 muscle spasm, I think it would be a very informative and
25 straightforward and simple test or study to do. I don't

1 think we're talking about a huge, incredibly expensive
2 undertaking. I think as a sponsor who is coming in with
3 the first drug in a potentially new class of OTC drugs,
4 that perhaps it's appropriate to ask the sponsor to perform
5 that rather straightforward, simple study.

6 DR. BRASS: Since it's now my study --

7 (Laughter.)

8 DR. BRASS: -- I will play devil's advocate
9 very quickly and say why do I care. If I do 009 placebo-
10 controlled and patients get better based on the self-
11 referral pattern, do I care whether or not they had
12 physician-diagnosable, confirmable muscle spasm?

13 DR. LOVELL: I think you do care because once
14 you approve a drug, you're going to open the floodgates to
15 a huge number of patients. This is a very large
16 denominator we're dealing with here. So it's one thing to
17 say in the numerator group it is an effective drug, but
18 it's also I think important to see if we can accurately
19 define the denominator population that will be taking this
20 drug.

21 DR. BRASS: To minimize risk of exposure
22 unnecessarily.

23 Yes?

24 DR. SHERRER: And I would say that as a
25 physician and consumer I would care, because if it's a

1 matter of Flexeril really having an analgesic effect, then
2 I could just optimize analgesics, which may not have the
3 same side effect profile.

4 DR. BRASS: I'm a lot more skeptical of
5 analgesics than the rest of you, but I'll go on to Number
6 3, then, and I'm actually going to editorialize Question 3
7 because it segues nicely.

8 "Can consumers" -- and I will say or physicians
9 -- "identify when Flexeril should be used, as opposed to
10 other products such as OTC analgesics? Can they adequately
11 assess whether their condition is responding to treatment?
12 Were these conditions identified by a significant number of
13 subjects where Flexeril use was considered when it should
14 not have been?"

15 DR. GILLIAM: I remember reading in some of the
16 background material that the patients responding in these
17 studies were asked: How much did your back pain really
18 bother you? If I remember correctly, most of them said
19 just mildly or just a little bit. I've looked for that
20 today and I can't find it, so I hope I'm remembering
21 correctly.

22 That goes back to an early question that I had.
23 I'm wondering if Flexeril adds that much more benefit than
24 just using Tylenol and/or NSAIDs in helping these people,
25 and whether from that aspect, if it's only bothering them

1 mildly or a little bit, if it's worth having this new class
2 of OTC product put on the market, and that using NSAIDs or
3 Tylenol and physical therapy or other modalities might be
4 just as beneficial. I would like to see some data along
5 that line.

6 DR. McNEELY: Correct me if I missed it, but I
7 don't think this question was ever asked in any of these
8 studies. Am I wrong? Because if you look at the pattern
9 of use study or the actual use study, they didn't query the
10 patients as to whether they should use Flexeril as opposed
11 to an analgesic. Am I right or wrong?

12 DR. BRASS: Yes, you're right. Again, we're
13 being asked as esteemed experts with vast experience to
14 help the agency extrapolate this aspect of the database,
15 and to the degree it is unanswerable and it is important to
16 answer, to convey that to the agency for future
17 considerations.

18 Did you want to follow up?

19 DR. McNEELY: No. I mean, it wasn't part of
20 the study. So that's something that's been repeated here
21 several times as something we have to address.

22 DR. BRASS: Yes.

23 Dr. Sachs?

24 DR. SACHS: I think the real practical point,
25 though, is that this isn't prescribed in a vacuum. I mean,

1 even the prescription is used in combination. So the
2 reality is that this medicine, if made over-the-counter,
3 will be used in combination with an analgesic such as NSAID
4 or aspirin or Tylenol or Advil, whatever.

5 So, in a way, maybe what's important to know is
6 whether it should be marketed that way too, as an adjunct
7 in addition to. I think that's the one thing, just being
8 very practical, I actually would have liked to have seen
9 data on nonsteroidals alone, this alone, even Benadryl
10 alone if the sedation is a big deal. If you have muscle
11 spasm and pain and you take Benadryl before you go to bed,
12 is that as effective in getting you a good night's sleep?
13 If you relax, maybe your muscle does relax, and you take
14 your Advil during the day so you're awake. That actually
15 would have been very practical.

16 DR. BRASS: Again, just to make sure I
17 understand, are you saying that given that real use will
18 probably be in combination with classical analgesic class
19 drugs, that it's important to show incremental benefit on
20 top of them, so that if it's used, there will be a
21 rationale for it?

22 DR. SACHS: Actually, as someone who really
23 doesn't use these, as a pediatrician I don't use this, to
24 me that was something I didn't know and that I would like
25 to know. And as a consumer, perhaps someone who might go

1 out to buy this, I would like to know is it better, should
2 I use it with it. Just common sense from what I've heard
3 and seen and experienced, it's been that it is actually
4 used with. So recommending it alone doesn't seem to really
5 make sense.

6 DR. BRASS: Dr. Yocum?

7 DR. YOCUM: Is there any -- this is a question
8 to the sponsor. I see baseline demographic data, but only
9 do I see baseline data on the physicians' scoring of the
10 degree of muscle spasm, which is relatively mild to
11 moderate. Do they have any baseline data of how severe
12 these patients were when they came in? The FDA has kind of
13 thrown this question out, and it suggests they may have
14 some knowledge that this was mild back pain, or is this
15 just a shot in the dark?

16 DR. KORN: Okay. To answer Mr. Gilliam's
17 question, in Protocol 9, in the use study at baseline,
18 there was a question: How much has the muscle pain
19 impaired your usual activities? That was asked not at all,
20 a little, somewhat, very much, extremely, and there was a
21 bell-shaped distribution, 41 percent of the patients said
22 somewhat, 23 and 24 percent on either side of that. So
23 that's the data, but the question was not asked at follow-
24 up in that study.

25 Asking, though, Dr. Yocum's question, the

1 patients did provide a rating of baseline pain severity in
2 the pivotal trials, and looking at Protocol 6, on a 5-
3 category scale, zero to 4, the patients in all three
4 treatment groups rated themselves similarly, approximately
5 2.3 on the zero to 4 score.

6 DR. BRASS: Dr. Blewitt?

7 DR. BLEWITT: I just wanted to clarify a point
8 on what data are required versus what data people would
9 like to see. In terms of the incremental value of a
10 product such as this, I don't think that I can say that it
11 is not the charge of the company or the sponsor to prove
12 this. The charge is to prove whether the product works in
13 and of itself. So I think there's a need to differentiate
14 the need to know versus like to know.

15 DR. BRASS: Yes, Dr. Lovell?

16 DR. LOVELL: I would like to question the FDA
17 as to what their intent was in Question 3A, because it
18 would seem that a number of studies have shown that
19 patients are reliable reporters of self-pain, and in the
20 functional assessment scales that were mentioned in our
21 discussion here, that patients are reliable reporters of
22 functional ability. So I was wondering if there was
23 another issue that was being addressed in 3A that I wasn't
24 aware of.

25 DR. BRASS: And let me just add again that to

1 the degree that we have data for 3A, it's that the
2 physician's exam did correlate to the patient self-
3 assessment over the course. It was not a perfect
4 correlation, but there was a correlation.

5 So, Dr. Katz, do you want to comment on that?

6 DR. ELASHOFF: Not only not perfect, but not
7 high.

8 DR. KATZ: Part of the intent behind the
9 question was, in a sense, if you look at Questions 1, 2,
10 and 3, they are all related to the efficacy and the data
11 presented to be able to say whether or not consumers can
12 adequately pick up the product and be able to make the
13 distinction, and whether, again, the committee felt that
14 the data presented not only in the efficacy trials but in
15 Trial 009, which was the actual use trial, and in the label
16 comprehension trial, could actually give the information
17 enough that people could feel comfortable that consumers
18 could use the product adequately and safely.

19 DR. BRASS: Dr. Elashoff, could you just expand
20 on your comment? It's important, and that's why I
21 highlighted that data, because it is the data that we have
22 available to our already-defined apparent gold standard of
23 physician examination.

24 DR. ELASHOFF: As I recall, some of the
25 correlations ran around 0.3 and some of them ran around

1 0.6. 0.3 explains about 10 percent of the variance, and
2 0.6 explains a little bit more than a third of the
3 variance. Those say that there is some general
4 relationship, but it is not a strong relationship between
5 the two.

6 DR. BRASS: Can the rheumatologists help me
7 clarify if there are any patients for whom the use of a
8 muscle relaxant would be used as first-line therapy before
9 initiating or at the same time as initiating analgesic
10 therapy?

11 DR. YOCUM: I suspect that there's a
12 significant portion of rheumatologists who may well use
13 this to treat fibromyalgia first line, and I think Dr.
14 Moore alluded to that earlier, that many rheumatologists
15 will go to a drug like Flexeril or amitriptyline first-line
16 over an analgesic. But in my practice, other than that,
17 unless I detect clear muscle spasm that I feel comfortable
18 with, which again even from my perspective is difficult, I
19 would go to an analgesic. Even in the case of muscle
20 spasm, I might do that anyway. So I would say a majority
21 of patients, other than the fibromyalgia group, are going
22 to get analgesics first, but other rheumatologists may have
23 different perspectives.

24 DR. BRASS: Even in the prescription dose or
25 for any other drugs that are in the "muscle relaxant

1 class," are there any data that would address at any dose,
2 in any population, the relative response to NSAIDs for
3 muscle spasm versus muscle relaxants? Again, I'm trying to
4 establish whether this is a black and white decision or a
5 consumer/marketplace type of decision between the different
6 agents.

7 DR. ABRAMSON: The easy answer is there's no
8 data to address the question. I think the reason this is
9 so nebulous is, again, when one is treating these
10 conditions, one doesn't know exactly where the pain is
11 coming from. I think the reason we may often use
12 analgesics first or anti-inflammatories is that the muscle
13 spasm oftentimes we think is secondary to whatever the
14 primary problem is. So if there's arthritis or some
15 mechanical joint pain, there may be secondary muscle spasm.

16 So I think, as David said, the first
17 inclination, without really knowing where the pain is
18 coming from, is to treat with analgesics or anti-
19 inflammatories. In some people with very severe pain in
20 whom you may think there's some muscle spasm, you may add
21 Flexeril to that. It's often in people who you want to
22 calm down a put a little to rest, so you're relying a bit
23 on the sedative component of it, rightly or wrongly. But
24 it's uncommon in the straightforward neck or back pain,
25 which we think is coming not typically from the muscles

1 first, to just go right to a muscle relaxant.

2 DR. YOCUM: I would agree, Steve, that that's
3 true, and even in the fibromyalgia group, I think most
4 rheumatologists are relying on the cancer data for relief
5 of pain and it has nothing to do with muscle spasm at all.

6 DR. BRASS: Would that clinical assessment be
7 true if there was an identifiable acute precipitant in a
8 25-year-old laborer?

9 DR. LOVELL: May I make a comment? I think
10 perhaps Dr. Abramson and Dr. Yocum are -- perhaps your
11 populations are skewed. Perhaps this question would be
12 better answered by primary care physicians who would be the
13 ones to which this 25-year-old laborer would be more likely
14 to go to see for his kind of acute onset back pain in an
15 otherwise healthy lifestyle. So I'm not sure that a
16 rheumatologist gets very many of these virginal patients
17 with acute back pain with muscle spasm related to sprain or
18 injury, that sort of thing. I pose that question to you
19 guys.

20 DR. ABRAMSON: Well, we'd be happy to teach the
21 primary care physician the correct manner of treating these
22 patients. You may be right to some extent, and I don't
23 know the acute spasm of a laborer. I'm not sure what the
24 right treatment for that is. We don't clearly have data
25 from this data set to say that it's Flexeril. It may be,

1 but there are no data to really address that.

2 DR. BRASS: Again, what I'm trying to
3 crystallize is the issue of the NSAID analgesic versus, and
4 the degree to which, if it is gray, it is proof of efficacy
5 of Flexeril against placebo in a gray area sufficient to
6 say that, well, we don't know any better, but at least we
7 know this works, again going back to all our other caveats
8 about efficacy, or is there a genuine concern that there's
9 reason to believe that there is some reason that we should
10 not be even considering the use of Flexeril as initial sole
11 therapy? That's what I'm trying to differentiate.

12 DR. ABRAMSON: I think the dilemma is what you
13 were alluding to before. I think the data speaks to the
14 fact that the drug is efficacious in the population that
15 was studied. The dilemma I think is that it's restricted
16 in the way the data was presented to muscle tightness and
17 strain and spasm, and to exclude people with other kinds of
18 chronic neck or back pain, and the question is do we know
19 whether it works in that population. Does 009 shed some
20 light on that, as you were suggesting?

21 I think the concern is if you take a very
22 narrow view of what the drug is indicated for, then the
23 concern is that there are many more people who don't have
24 that particular condition but have chronic backache and
25 other concerns who will get exposed to the drug because the

1 criteria for entry here would not be the criteria for use
2 in the population. So I think that's where the problem is.
3 If a drug is only indicated for muscle spasm, tightness,
4 and strain, and people over 65 should call their doctor
5 first, then there's a potential problem with putting it
6 OTC. If it was shown to work in backache and nondescript
7 and didn't have those caveats, I don't think there's any
8 question that the drug has a role. But as narrowly
9 constructed here, the problem is that it may get utilized
10 in people beyond where it's been shown to work.

11 DR. YOCUM: I think Dr. Lovell's comments are
12 well taken, but I think it also emphasizes that there are
13 whole books on back pain, and different ages, different
14 ethnicities which you talked about earlier, different
15 educational levels -- I think it's one of the things we've
16 all struggled with today here. We've compressed a very
17 complex area into three global categorical analyses,
18 expecting a broad range of patients over 50-some-odd years
19 to respond, and I think the FDA's concerns are the same
20 way. It's categorical analysis versus a mean analysis of a
21 very complex area. So it's just not easy to approach.

22 DR. HARRIS: At the risk of jumping a few steps
23 ahead, I want to come back again to a point made earlier by
24 Dr. Sherrer, that in a number of these circumstances, one
25 would probably want to use an analgesic first -- strains,

1 sprains, spasm, whatever. I think as long as that option
2 remains viable and safer, then there is the issue, again
3 coming back, as to the use of Flexeril.

4 DR. BRASS: I would point out that there's no
5 data that it's safer. I know an awful lot of people with
6 adverse events from NSAIDs presenting to my hospital every
7 day. So I think you hit the paradox and how we set the
8 bar.

9 Yes, Dr. Koda-Kimble?

10 DR. KODA-KIMBLE: I forgot your instructions.
11 We were provided with AHCPR guidelines on acute low back
12 problems and pain, in which they do not recommend muscle
13 relaxants at all for this problem. They did a very
14 thorough review of the literature at the time and indicated
15 that at least muscle relaxants were no more effective than
16 NSAIDs. So given that the first question, if we accept the
17 AHCPR guidelines, we could say the answer is no to your
18 question, that physicians aren't using them properly
19 either.

20 DR. BRASS: You caught the attention of one of
21 our consultants -- one of their consultants. Sorry.

22 DR. BORENSTEIN: I just wanted to make a
23 comment about those guidelines. I think that you have to
24 remember from where they came and what they were based on.
25 They were based upon whatever evidence was available. Lack

1 of evidence doesn't mean that it did not work. What it
2 basically said is that it was not available. Now, in fact,
3 we have some evidence, from whatever viewpoint you may take
4 of the data, where in fact these drugs have been tested,
5 particularly Flexeril has been tested by itself to see if
6 it's efficacious.

7 So now, in fact, if this were published in a
8 journal, that same group could now go back and say the
9 muscle relaxants might work because of this very study if
10 it was in fact in the literature. So I think those
11 guidelines are very important, but they did not come down
12 from Mt. Sinai. They're sort of guidelines which will
13 change, and this group I believe will be looking at other
14 guidelines which may change over time. So I think that
15 although we like evidence-based medicine, it's important to
16 remember that we're only doing as well as what evidence we
17 have available. The fact that we don't have evidence
18 doesn't mean that it doesn't work. From a practical
19 standpoint, I can certainly tell you, as a physician who
20 sees the whole range of low back pain problems, that these
21 are agents which work.

22 DR. BRASS: Just for clarification, you are now
23 referring to the medical school in New York.

24 (Laughter.)

25 DR. BRASS: Dr. Blewitt?

1 DR. BLEWITT: I was going to say the same thing
2 as Dr. Borenstein, but not as well.

3 DR. BRASS: Other comments about Question 3?
4 Yes, Dr. Blewitt?

5 DR. BLEWITT: I can't find it now, but you had
6 mentioned about concomitant use, and it seems to me that in
7 009, as they enrolled studies, there was a certain
8 percentage of people who were taking them concomitantly,
9 and it wasn't 100 percent. In fact, it was fairly low.
10 Again, I can't find the page, but it seemed to be a rather
11 low percentage, 20 or 25 percent, something like that.

12 DR. BRASS: Yes, it was in there. Twenty or 30
13 percent is my recollection. But again, there was no
14 efficacy assessment, so to the degree that's a question,
15 that becomes a concern.

16 Other comments or questions about Question 3?
17 Is the agency satisfied with the discussion?

18 Question 4. The reason we're not taking a
19 break is I'm hoping we're going to be done in 30 minutes.

20 "Has the metabolism and excretion of Flexeril
21 been adequately characterized? If no, what additional
22 information should be obtained (for example, better
23 characterization of the metabolic pathway, drug-drug
24 interactions)? Are there any potential or known drug-drug
25 or drug-food interactions that may impact on the safe use

1 of this drug in the OTC setting?"

2 Perhaps I just want to ask one additional
3 question of the sponsor. In particular with respect to
4 drug-food interactions, is there a potential to get
5 accelerated absorption with certain types of food from this
6 formulation that would give you higher peak, earlier peak
7 concentrations, and then for more acute sedation?

8 DR. KORN: Nothing that we're aware of.

9 DR. BRASS: Because again, as you're aware,
10 there are certain types of formulations where ingestion
11 with fatty foods, et cetera, will change and lead to an
12 accelerated -- and this is partly going back to why I asked
13 about the three times a day dosing. You're clearly
14 concerned about high peaks, and anything that would
15 accelerated absorption therefore would be of some concern.

16 Other comments or questions about this issue?

17 DR. PUCINO: If you have a wish list of things,
18 it would be nice to know the metabolites, if they're
19 active; if they are, then to know the kinetics of the
20 active metabolites. It would be nice if they co-model some
21 of the psychomotor effects with steady state
22 concentrations, CPmax, areas under the curve. It would be
23 nice to have some pedes data. It would be nice for the
24 drug interactions, at least for things that are over-the-
25 counter -- grapefruit juice, H2 antagonists like

1 cimetidine. Because it's highly protein bound, it would be
2 nice to know about free drug kinetics, particularly as it
3 relates to malnutrition, elderly patients, liver
4 dysfunction, and so on and so forth.

5 DR. BRASS: I'm going to ask you to expand on
6 that because having what's nice is useful. Having what's
7 really critical differentiated is going to be helpful to
8 the agency, and I think there are a couple of points you
9 hit upon that I would just like to highlight and then ask
10 you to comment on.

11 The first is the issue with the elderly. We
12 know that total drug concentration is significantly
13 increased. The free drug concentrations for the reasons
14 you alluded to may even be more dramatically increased, and
15 the same thing with liver disease, incidentally.
16 Understanding the free drug-disease/age interaction I think
17 would be, to the degree that's going to matter in the
18 labeling, I think would be important.

19 Second, in terms of the drug interactions, the
20 argument has been put forth that identifying the diversity
21 of the metabolic pathways is reassuring that inhibition of
22 any one of them is extremely unlikely to cause a clinically
23 significant drug-drug interaction. Do you find that
24 reassuring?

25 DR. PUCINO: I mean, there's some limited data.

1 My understanding, at least with fluoxetine, there was some
2 limited data that there could be an interaction, but there
3 were no kinetics to suggest that. There are other SSRIs
4 where there's some concern. We don't know about
5 macrolides. So maybe that's the case, but we don't have
6 any safety data, and that's why I say at least having
7 things that are going to be used over-the-counter -- it
8 would be nice to be reassured, i.e., the grapefruit
9 situation. With some drugs, that's significant. We hope
10 that in this case, that would not be an issue.

11 DR. BRASS: Again, to make this very specific,
12 my understanding is the grapefruit issue is only clinically
13 relevant, if ever, with drugs that have first-pass
14 metabolism. So that systemic bioavailability is increased
15 during the acute exposure to the flavone, whatever it is in
16 the grapefruit juice. Therefore, one would predict it's
17 unlikely that there would be an interaction with this drug.
18 Similarly, for the macrolides, if you knew that 10 percent
19 of the metabolism was through 3A4, and you knew that as an
20 independent fact, would you still require an erythromycin
21 drug interaction study?

22 DR. PUCINO: If you knew that. But do we know
23 that?

24 DR. BRASS: I'm not saying that. Again, I'm
25 trying to differentiate what's necessary versus --

1 DR. PUCINO: If I were comfortable that there
2 was a diverse metabolism, enough that the 3A4 was not
3 significant, then yes, that wouldn't be such an issue,
4 either if we're talking about the intestinal tract or the
5 liver. But without knowing that, it would be nice to have
6 some limited data at least to support that.

7 DR. BRASS: Other questions? Yes.

8 DR. BASHAW: Dennis Bashaw. I wanted to touch
9 on two issues that you brought up in your discussion just
10 recently. There is a commitment for a study to be done
11 with food. That was not part of this package, but there
12 was a negotiated commitment with the sponsor that is in the
13 planning stages. So this touched on that issue.

14 With regard to metabolism of cyclobenzaprine,
15 it is a first-pass drug because the bioavailability is
16 approximately 55 percent. Yet when you look at its
17 excreted pattern, obviously there is some degree of first-
18 pass metabolism happening there. So grapefruit juice
19 could, in theory, be playing a role there, or could play a
20 role potentially. But when you look at the enzyme systems
21 involved, it's probably not. But that will be addressed,
22 maybe not specifically with grapefruit juice, but with the
23 in vitro methodologies. We're hoping to capture that kind
24 of information.

25 DR. BRASS: Thank you for that clarification.

1 Do you think that the radioactivity recovered in the urine
2 was higher than the systemic -- I'm sorry. How did you
3 determine it was first-pass elimination?

4 DR. BASHAW: Well, when we looked at the
5 excretion and we had an I.V. study --

6 DR. BRASS: Oh, so you have an absolute
7 bioavailability.

8 DR. BASHAW: Yes, we do.

9 DR. BRASS: Okay, thank you.

10 DR. BASHAW: There was an absolute --

11 DR. BRASS: That wasn't in here. Okay. Thank
12 you.

13 Dr. Lovell?

14 DR. LOVELL: To look at the database, it's
15 overwhelmingly white, and I'm not sure if there's enough
16 ethnic diversity in the database to answer some of the
17 metabolic and safety questions in ethnic groups other than
18 the ones that are overwhelmingly represented sitting at
19 this table.

20 DR. YOCUM: I share Dr. Lovell's concern. As a
21 rheumatologist thinking about this drug, even as I use it
22 as a prescription drug, it is frequently not able to be
23 taken for extended periods of time, especially in the
24 elderly. At least the hint that we see of the elderly
25 pharmacokinetics is very, very scary to me, of the very

1 high levels that they can achieve at 5 milligrams three
2 times a day. Based on this data, I would want to say, gee,
3 I think it should be restricted to people less than 65,
4 period, because in practice, a number of elderly people
5 coming in with acute neck and back spasm or strain is
6 relatively low and typically due to chronic arthritis or
7 other problems, which I don't want to use this for. So I
8 have a problem. I would want to strictly limit it.

9 DR. BRASS: Other pharmacokinetic issues?

10 Yes, Dr. Harris?

11 DR. HARRIS: This is somewhat informational to
12 the OTC group. This is an agent that has been around for
13 quite some time. There is extensive clinical experience
14 with respect to its use, side effects, and so on. What
15 sort of additional data one might expect from getting
16 metabolism, new metabolism and excretion data that might
17 not already exist that could tell us something clinically
18 is the question.

19 DR. BRASS: Yes. I think that's a general
20 comment. It goes back to the degree of confidence one has
21 on our sporadic observation of adverse events as being
22 sensitive to identifying drug-drug interactions. We've
23 seen what is clearly an adverse event profile in all the
24 databases that says a percentage of the population responds
25 differently. There's nothing in those databases that says

1 maybe they're all taking erythromycin, and unless somebody
2 looked, you'd never find those kinds of things. So I think
3 that our understanding of rational predictive power says
4 that to the degree we can do straightforward things and
5 understand those risks better helps consumers, physicians,
6 and sponsors as well.

7 Yes, Dr. Koda-Kimble?

8 DR. KODA-KIMBLE: I don't know whether this is
9 a pharmacokinetic question, but one of the things that did
10 strike me right away is why isn't this drug given as a
11 single dose at bedtime? Because of its long half-life, its
12 effects on sedation, the sedation would occur at night when
13 it's supposed to, and it probably would just mess all of
14 the studies up, I realize that, because everything has been
15 done on a TID basis. But it just seems that it would
16 improve compliance. A lot of potential concerns would be
17 minimized.

18 So to the extent that pharmacokinetic data that
19 sort of analyzed a single dose at bedtime and the adverse
20 effects that accompanied those pharmacodynamic effects I
21 think could be useful.

22 DR. BRASS: Does sponsor want to comment on
23 that?

24 DR. KORN: Again, we adopted the historical
25 precedent of the dosing, but we have thought about the

1 advantage of TID dosing; namely, that a potentially
2 sedating product like cyclobenzaprine may offer an
3 advantage to patients with acute back pain that a
4 nonsteroidal drug can't do. Namely, it may help them sleep
5 through the night. If their pain is bad enough that they
6 cannot sleep through the night, that could be a realistic
7 benefit that could be measured in a clinical trial.

8 DR. BRASS: Other comments or questions?

9 (No response.)

10 DR. BRASS: Okay. Going on to Question 5.

11 "Safety concerns include the adverse reactions associated
12 with Flexeril use (especially adverse reactions similar to
13 those seen with closely-related tricyclic antidepressants);
14 the possibility of misuse or overdose; and any possible
15 drug interactions. Can consumers, including elderly
16 individuals, safely use Flexeril in an OTC setting, taking
17 into account the available data on adverse effects,
18 sedation, overdose and misuse, and concomitant medications?
19 If not, why not? If yes, is any additional information
20 needed on the labeling?"

21 If I could just clarify, when you say including
22 the elderly, do you mean including the elderly not using
23 it? Are you saying is it clear the elderly will not use
24 it, or if they did use it would it be safe, or that if they
25 were allowed to use it it would be safe?

1 DR. KATZ: Actually, in a sense, it's all of
2 the above.

3 DR. BRASS: It always is.

4 (Laughter.)

5 DR. KATZ: That's right, because part of the
6 discussion is that even though we may label a product that
7 it shouldn't be used in those greater than 65, they still
8 may use it. So we should have good enough knowledge of
9 what will happen if they end up using the product.

10 DR. BRASS: Okay, takers for Question 5?

11 DR. ABRAMSON: I guess one of the problems is
12 that certainly the answer is that consumers can take
13 responsibility for reading the label and being aware of
14 potential side effects and know not to drive. That's their
15 responsibility, perhaps. But some of the side effects that
16 one does see in practice or that have been reported are
17 idiosyncratic, whether it's disorientation or some of the
18 CNS effects, that a person can't change their behavior to
19 protect themselves from, and that's where the elderly issue
20 becomes the one concern and how practical it is to think
21 that people over 65 will call their doctor before they take
22 the medication.

23 So that's the one concern that I think one has
24 to read into this question, is the idiosyncratic severe
25 reactions, although rare, do happen.

1 DR. BRASS: Yes, Ms. Hamilton?

2 MS. HAMILTON: A couple of observations. The
3 question speaks to the possibility of misuse by consumers
4 or elderly individuals, and I think there clearly is the
5 potential. There's been the demonstrated misuse of the
6 product in terms of using it for arthritis or headaches.

7 I just want to point out that in the label,
8 there might be a real simple explanation for that.

9 Sometimes it's the simplest things that we overlook. The
10 very first paragraph on the label, which is where I believe
11 consumers look -- they go to look at which symptom is this
12 product going to relieve. Is what I'm experiencing
13 relevant to what this product might offer? And the two
14 words in there that seem to me to suggest it could be used
15 for headaches and arthritis are "tension" and "stiffness,"
16 and in the context of this discussion, we put that in the
17 context of all those other discussions, but when you tell a
18 lay person that this is something that will deal with the
19 pain of tension or stiffness, if I hadn't been in this
20 discussion, I would have thought this was appropriate for
21 arthritis or a headache. So I think that's one certain
22 clarification that could at least minimize that kind of
23 misuse should this product ever be made available on an
24 over-the-counter basis.

25 The question I asked earlier about consumers'

1 ability to recognize the technical names for other
2 prescription products that they're using I think is an
3 important one in looking at this label. I can't pronounce
4 most of what's done there in that very, very last
5 paragraph, but until it gets into a generic description
6 about an antidepressant and psychiatric and emotional
7 conditions, I don't see anything simple to understand
8 there. So I have a real serious question about whether or
9 not an average consumer would recognize a product that
10 they're taking on this label, and whether or not they would
11 then be involved in concomitant use which is not
12 appropriate, because that information is not clearly
13 provided in the label.

14 The question was raised earlier about whether
15 or not it's not safe or appropriate to use this product in
16 conjunction with antihistamine use. I don't know the
17 answer to that but I thought it was a good question, and
18 that's such a commonly used product that it probably ought
19 to be dealt with.

20 DR. BRASS: Other comments? Yes.

21 DR. KRENZELOK: The venue that I practice in is
22 one of high selection bias because we have everyone calling
23 the poison center who has a potential adverse event with a
24 product. They've taken too much, they've taken it
25 unintentionally -- who knows what the reason is, but

1 generally it's a fairly significant amount, and I have to
2 tell you that in 22 years of watching these types of
3 overdoses, as I mentioned this morning, I'm impressed by
4 the very high safety profile of the compound. It's very
5 rare that you see this drug being abused, and the poison
6 center is often a place where these sentinel events begin
7 to accumulate, and we see them because we're handling a
8 bunch of them all of a sudden. So you don't see it in
9 combination with other drugs, trying to produce a
10 synergistic effect with heroin or something of that nature.

11 So I think from a misuse standpoint, from an
12 abuse standpoint, from an acute overdose standpoint, where
13 you see very commonly overdoses of 100, 200, 300 milligrams
14 if they get 90 tablets because that's what their HMO
15 allows, you have the potential for having a 900 milligram
16 overdose. I'm not impressed at all with this drug from a
17 negative standpoint. So I think the safety profile, from
18 my perspective, is very, very high, and I don't see a
19 problem with the 5 milligram dosage, whether it be little
20 kids getting into a few extra tablets or whatever.

21 The only one that concerns me is perhaps the
22 drowsiness from a general consumer standpoint, and I think
23 what I'd like to see would be some quantification of
24 drowsiness, because many of us around this table have had
25 some aspect of drowsiness at some point in time.

1 DR. BRASS: Including today.

2 (Laughter.)

3 DR. KRENZELOK: Yes, and how do you rank that?
4 Does it take three mints to keep you awake or a glass of
5 water or a stimulating speaker? I think that's a
6 difference among people, but certainly I think it would be
7 very valuable to quantify this because I'd want to know if
8 this person was going to take this, now are they going to
9 be dozing off at the wheel or something of that nature. So
10 how profound is the drowsiness? I'd like to see that
11 clarified.

12 DR. BRASS: Do you want to see it clarified as
13 drowsiness, or is the psychomotor testing more relevant to
14 you?

15 DR. KRENZELOK: I think the psychomotor testing
16 would be a lot more relevant than drowsiness. That's such
17 a generic term and more difficult to quantify.

18 DR. BRASS: If I could just follow up on that
19 point, we've all acknowledged that use in combination with
20 other sedating products would be very, very bad. Do we
21 know how bad? I mean, do we know whether this is additive
22 or synergistic? If you drank a glass of wine and took one
23 5 milligram pill, would you then be completely
24 incapacitated? If you took 4 milligrams of
25 chlorpheniramine and 5 milligrams of this, would you be

1 completely incapacitated? Do we have any sense of that
2 pharmacodynamic interaction on that safety profile?

3 DR. YOCUM: From personal experience, 5
4 milligrams is not sedating. It's an odd effect, and what
5 many of my patients complain about is feeling like a zombie
6 effect. It may not be sleeping, but I find it astounding
7 that this is actually prescribed at 10 milligrams TID. I
8 give my patients 10 milligrams at bedtime. So I'm amazed
9 that patients could tolerate 30 to 40 milligrams a day on a
10 regular basis, because this has quite a sedating effect and
11 psychomotor effects.

12 My patients don't abuse this drug in the
13 arthritis sense. I don't know why. I don't think it's an
14 abuse-type drug. What I would be concerned about from the
15 pediatricians here, since we have at least two, what would
16 be the prospects of young adolescents who get into
17 "downers," this becoming quite a fun thing to do because,
18 for some reason, there seem to be fads that kids go
19 through, going into downers and some of the stuff that goes
20 on. Is that a potential issue? That's probably far astray
21 here.

22 DR. SACHS: I actually was going to bring up
23 that there doesn't seem to be a lot of data in pediatrics
24 per se, and that was one thing I was impressed in reading
25 most of this, until I guess one of the FDA looked at some

1 of the overdose literature, and it was reassuring to hear
2 about the poison control literature. So actually that was
3 just something that I wanted to make sure was still in the
4 committees heads and that the labeling had to be very clear
5 that at this point there is no indication in pediatrics.

6 The other concern is actually to the potential
7 fetus. There were some reports, though, of problems for
8 pregnant women, and I think that the lay perception is that
9 something over-the-counter is safe and may be safe to a
10 pregnant woman, and if there really is clear teratogenic
11 effects, I do have a lot of concern about making something
12 over-the-counter.

13 DR. BRASS: I think the sponsor will make a
14 statement about that.

15 DR. KORN: Slide 428, please. I think neither
16 we nor, if I can be so bold as to speak for the agency,
17 don't see a signal of teratogenicity in the five anomalies
18 that are reported here. Each of these anomalies is
19 reported spontaneously and known to occur at rates of 1 to
20 350 to several thousand in live births in this country. So
21 we do not see a signal. It's well recognized that
22 retrospective reports of use during pregnancy are much more
23 likely to report adverse outcomes than normal healthy
24 offspring. So we do not see a signal here.

25 DR. BRASS: And it currently carries a Class B.

1 Is that correct?

2 DR. KORN: That's correct. Animal studies do
3 not show any signal.

4 DR. BRASS: Yes, Dr. Lovell?

5 DR. LOVELL: There's a concern I have, and that
6 is that in the third through seventh to tenth day of taking
7 this medication, when you're over the acute back pain and
8 are now able to be a little more outgoing and you get back
9 in your car, we have no data about the psychomotor effect
10 of this drug in steady state, which, as you've shown us, is
11 at a much higher drug level than the acute 24-hour dosing
12 psychomotor testing you have.

13 So I would be very concerned that we would have
14 that kind of psychomotor driving data available to us in
15 the later stages of dosing, and also whether sedation
16 itself is an adequate symptom to indicate to people they
17 should or should not drive.

18 DR. BRASS: I would just like to come back to
19 -- because it's actually in the question -- the issue of
20 analogy to tricyclic antidepressants, because while it is
21 clear that it is antimuscarinic and anticholinergic, I see
22 nothing else in either the pharmacology or the clinical
23 signals that suggests this has any actions at the molar
24 concentrations that you use this compound that is anything
25 like the more idiosyncratic Class 1A QRS prolongation,

1 other kinds of things that are seen routinely with
2 elevation in tricyclic antidepressant plasma
3 concentrations.

4 Does the agency have any reason to continue to
5 sustain that concern? Dr. Neuner or others, is this still
6 an issue, or am I missing something?

7 DR. KATZ: Basically, what this compound is is
8 structurally related to the tricyclic antidepressants. So
9 because some of the way the data was collected, or the lack
10 thereof, is why the question is addressed, and that's why
11 it was raised, because even though the profile itself is
12 reassuring with regard to some of the effects one would
13 see, we don't have data that actually looked for some of
14 this information, and that's why it was raised to you as
15 the committee to see if you have any concerns that the
16 sponsor should go back and look at some of these issues
17 again, or if there is no concern, then that would be that
18 as well.

19 DR. BRASS: My level of concern is extremely
20 low. The two pieces of data, if they were available, that
21 would help me feel even more comfortable is if, in the
22 overdose cases, if QRS duration could be examined and
23 addressed whether or not there was any prolongation. If
24 not, then it doesn't have the effects, and if there was
25 anything in that kind of signal, in vitro testing for Class

1 1A-type EP properties again would clearly differentiate
2 from a cardiac toxicity and arrhythrogenicity standpoint
3 from the tricyclics.

4 DR. YOCUM: The number of elderly in this
5 situation were relatively few, less than 10 percent in any
6 of these studies. So it's kind of hard to look at some of
7 that stuff. The way the selection criteria went, most of
8 the at-risk elderly is even a smaller portion of this
9 population. So I don't think there's a lot of data there
10 for some of the greatest at-risk patients.

11 DR. BRASS: I agree. But again, to the degree
12 that it's based on an analogy to the tricyclics, it's easy
13 to differentiate whether or not you have the cardiac
14 effects that tricyclics have. And even in young patients
15 at high concentrations, you get QRS prolongation uniformly,
16 or almost uniformly in the serious overdoses. If it's
17 similar to Class 1A properties would be demonstratable in
18 vitro, and whether there are any other surrogates people
19 know about.

20 I agree, we don't have the data, but I'm
21 unconvinced that there's a pressing rationale for extending
22 that analogy in these kinds of concentration ranges, as
23 evidenced by the fact that the drug didn't work as an
24 antidepressant either.

25 DR. KRENZELOK: If they're equimolar potent and

1 so on, you're looking at serum concentrations that are a
2 few nanograms versus 750 to 1,000 nanograms per milligram,
3 where you begin to see QRS prolongation. So there doesn't
4 appear to be any apparent association at all.

5 DR. BRASS: That's why I emphasized the molar
6 concentration. The only caveat is that you'd have to do
7 free drug concentrations with the two, to the degree that
8 would make a difference. But they're two logs different
9 league of concentrations on total drug.

10 Yes, Dr. Lovell?

11 DR. LOVELL: As the other pediatrician on the
12 committee, I feel compelled to respond to Dr. Yocum's
13 question. It seems as if the acute overdose database,
14 because of the number of prescriptions written and the time
15 that the drug has been available on the market, is very
16 reassuring and robust in terms of safety as far as children
17 getting into their parents' medication. So I don't think
18 that that itself is a concern.

19 The other thing you think about in pediatric
20 use is off-label use, and the two situations that I would
21 foresee in which this would very likely be used by
22 pediatricians off-label is in fibromyalgia and acute muscle
23 spasm related to sprains, just like the indication says.
24 Both of those are predominantly adolescent type problems.
25 I don't see them being big issues in preschool or in

1 elementary school aged children. So once you get to be an
2 adolescent, drug dosing and metabolism for the most part is
3 very much like adults, and I don't see that there's a real
4 compelling issue to do pediatric PK studies in this drug.

5 DR. BRASS: I would just, not as a pediatrician
6 also, respond that the other window to that is the
7 emergency room, and that there are a number of prescription
8 drugs that are sold illicitly on the street to adolescent
9 populations which then present often towed by their parents
10 into the emergency room, certainly haloperidol, diazepam.
11 There's a broad list of such compounds, and I've never
12 personally heard of cyclobenzaprine in that class. Again,
13 the warning system from the EDs would also highlight if
14 there was a significant potential. It doesn't mean
15 tomorrow there won't be, and this is being televised.

16 DR. KODA-KIMBLE: Is Dr. Andreason still here?

17 DR. ANDREASON: Yes.

18 DR. KODA-KIMBLE: Could you please, for my own
19 education, explain to me why you recommend a P of 0.1 in
20 evaluating the adverse effects?

21 DR. ANDREASON: Well, the way that the sponsor
22 set up the initial statistical analysis was actually to
23 test the efficacy of Flexeril at producing sedation and
24 psychomotor impairment, as opposed to looking at it for a
25 safety concern. At that level, that would mean that there

1 was only a 1 in 20 chance that these findings were due to a
2 random effect. In that sense, we use the level of 0.1 as
3 an exploratory value, and these are also small studies, so
4 that if in a study that involved 50 people there is no
5 effect, or there's no sign of an effect, that does not mean
6 that there is no effect, especially with a level of 0.05.

7 At the level of 0.1, which is still fairly
8 conservative with the small study, if there is no effect,
9 that doesn't necessarily mean -- lack of evidence does not
10 necessarily mean that there's a lack of an effect. In this
11 case, at a level of 0.1, with only a small number of people
12 in the study, there actually was an effect.

13 DR. BRASS: If I could just follow up on that,
14 as I alluded to, I think the psychomotor data are much more
15 relevant than the subjective sedation, and I remain
16 concerned about the relatively small N in those studies
17 identifying the 2 percent in the clinical studies who were
18 self-diagnosed as severely impaired and a 2 percent kind of
19 signal.

20 Now, while the distribution data was somewhat
21 reassuring, it's still a relatively small N, and whether or
22 not there's an X percentage -- and in terms of setting up a
23 study to answer the question whether the population is
24 affected or whether you could pick up X percent of the
25 exposures who were severely impaired from exposure,

1 statistically is a very different design.

2 DR. ANDREASON: Yes.

3 DR. BRASS: So I have a residual concern in
4 that particular area in the psychomotor testing as to what
5 is sedation and what's impairment.

6 DR. PUCINO: To respond to that also, four
7 doses, even in the young person, doesn't achieve a steady
8 state. So it would be nice to see the same data at 8 to 10
9 days out.

10 DR. BRASS: This goes back to the bias that
11 sedation is a surrogate for psychomotor impairment, and it
12 may or may not be, and it was planned that way based on the
13 time curve of mean sedation, which again doesn't identify
14 outliers, individuals, and assumes that it is, in fact, a
15 1-to-1 surrogate for psychomotor impairment, and one could
16 imagine it not being. One could imagine becoming
17 refractory to sedation and maintain a psychomotor
18 impairment.

19 Yes, Dr. Harris?

20 DR. HARRIS: The concern I have is about the
21 elderly again, whether or not one should recommend that it
22 be used at all in anybody over 65, given that it's unlikely
23 that many people are going to call their doctors anyway,
24 given the sort of risks that there may well be, and there
25 is not too much data anyway to tell us one way or another.

1 So the issue is whether or not to recommend the use of this
2 drug, if we get to that stage, in anybody over 65 at all.

3 DR. BRASS: Could you comment on what risks
4 you're particularly concerned being more of a problem in
5 the elderly?

6 DR. HARRIS: The psychomotor I think in
7 particular. I can't say the degree to which there is more
8 of a risk based on the data I've seen here, but I think
9 theoretically there could be.

10 DR. BRASS: So again, sedation which was
11 measured is not an adequate surrogate?

12 DR. HARRIS: Well, to some degree, I guess. I
13 guess one could say so.

14 DR. BRASS: Other safety issues or concerns?
15 (No response.)

16 DR. BRASS: I think we answered a lot of these
17 issues in the context of some of the other questions.

18 Anything from the agency's perspective that we
19 didn't cover?

20 (No response.)

21 DR. BRASS: Then the final question is, does
22 anybody want to say anything else? That's paraphrasing it.
23 Any other issues or concerns about the discussion today
24 that haven't been brought up that individuals would like to
25 bring up?

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(No response.)

DR. BRASS: If not, and if the agency doesn't have any additional issues, I would just like to thank all the presenters who did such an excellent job of presenting succinct, on-time presentations, and all the members of both committees who contributed to a very lively but I think instructive discussion. Thank you all.

The meeting is adjourned.

(Whereupon, at 3:28 p.m., the meeting was adjourned.)