

1 and the other question. Since there are factors  
2 that can influence someone's subjective feelings of  
3 sleepiness, do you have any objective measures that  
4 support the indication of daytime sleepiness?

5 Specifically, the one trial that I am aware of that  
6 had an MSLT and did daytime sleepiness as a primary  
7 outcome measure, in fact, appears to be not  
8 supportive of the indication.

9 DR. HOUGHTON: Yes, in the Scrima trial he  
10 used the MSLT measure and that was not  
11 statistically significant, as shown. The objective  
12 data that we propose supports very strongly the  
13 effect of adequate dosing of GHB was the SXB-20  
14 trial that Dr. Black discussed. That is not only a  
15 profound improvement in the MWT at the 9 g dose but  
16 a defined dose response across all doses. That is  
17 very positive data.

18 DR. KAWAS: In ten patients, it appears.

19 DR. HOUGHTON: Twenty-one.

20 DR. MANI: May I also add that that was an  
21 open-label, non-randomized study?

22 DR. HOUGHTON: Sure, but using an  
23 objective measure.

24 DR. RISTANOVIC: I am I am Ruzica  
25 Ristanovic, medical director of Sleep Disorders

1 Center, in Evanston, Illinois. I would like to  
2 comment on add-on Xyrem in the presence of other  
3 stimulants. Other studies attempt to try to  
4 document the effectiveness of other stimulants in  
5 narcolepsy-related sleepiness documents, including  
6 the most rigorous trial of modafinil in  
7 double-blind, placebo-controlled studies. They  
8 document that these drugs improve sleepiness but  
9 very seldom outside of the range of pathological  
10 sleepiness as measured by Multiple Sleep Latency  
11 Test and Maintenance Wakefulness Test. So, the  
12 patients remain sleepy. That is the message.  
13 Add-on treatments are approved for other  
14 indications in other neurological diseases, such as  
15 epilepsy. So, I assume that this application for  
16 that particular indication is not for monotherapy  
17 but as an add-on to concurrent use of stimulants.  
18 I would like to bring this to your attention. So,  
19 patients do remain sleepy on stimulants and they  
20 need additional treatments.

21 DR. KAWAS: Dr. Temple?

22 DR. TEMPLE: Dr. Houghton also seemed to  
23 be distinguishing between monotherapy and add-on  
24 therapy. That is not the problem. The problem is  
25 whether there is adequate support for use as an

1 addition for whatever else the patient is on, and  
2 whether there are well-controlled studies that  
3 support that. So, add-on would be perfectly fine.  
4 That is usually true in a lot of conditions, not  
5 just neurological ones, where you continue to give  
6 standard therapy and try to improve it.

7 I just want to make one observation about  
8 the evidence. We do expect to see replicated or  
9 reproduced findings. Some of the issues here are  
10 whether the fact that the endpoints are secondary  
11 and need some correction means that there isn't  
12 adequate support. A lot of these things are  
13 matters of judgment that the committee can weigh in  
14 on. Not everything is, you know, a yes/no. Some  
15 of the things are moderately subtle and that is why  
16 this is being brought to you for judgment. There  
17 is one study that is obviously stronger than the  
18 rest but the others can be considered, and you sort  
19 of have to think about how many real endpoints  
20 there really are; how much of a correction is  
21 needed. Those are difficult discussions but worth  
22 considering.

23 DR. KAWAS: Dr. Katz?

24 DR. KATZ: I agree, but I think we would  
25 still have to have the application meet the

1 standard of independent replication, in other words  
2 two trials. You can decide that one of the other  
3 trials actually does meet the usual standard,  
4 again, taking into consideration the multiplicity  
5 and that sort of thing. All I am saying is that I  
6 don't think we can say we have one study that looks  
7 good. If you believe that GHB looks good and the  
8 others sort of contribute to a feeling that it  
9 probably is okay, I mean, we really need two  
10 independent sources that you believe demonstrate  
11 the effectiveness.

12           The only other point I wanted to add is to  
13 something, Claudia, you said which has to do with  
14 Dr. Houghton's view that they are not going for a  
15 claim of daytime sleepiness; they just want, I  
16 guess, to have language in the labeling that says  
17 that it improves that symptom. Most of the drugs  
18 we approve are for symptomatic claims, so there is  
19 no question that the inclusion of this language in  
20 the indication is a claim as we always understand  
21 that term.

22           DR. KAWAS: Dr. Guilleminault, followed by  
23 Dr. Wolinsky, please.

24           DR. GUILLEMINAULT: If you look at all the  
25 published data on modafinil, on amphetamine, on

1 methylphenidate, none of these drugs ever  
2 normalized all the objective tests on alertness and  
3 daytime sleepiness. None of them, including the  
4 modafinil data which were approved by the FDA. The  
5 MSLT and MWT for all these drugs are pitiful. The  
6 only data which shows significance was the Epworth  
7 Sleepiness Scale, which is a subjective scale, in  
8 all these trials. So, we cannot expect to have any  
9 positive result with subjective tests in any of  
10 these drugs. We will always have to rely on  
11 subjective tests even if the subjective test is not  
12 great. Everybody in the field agrees that the  
13 Epworth Sleepiness Scale is the most used scale  
14 despite the fact that it has a lot of downfall, and  
15 we have to remember that when we look at what has  
16 been approved and what is being used.

17 DR. KAWAS: Thank you, Dr. Guilleminault.  
18 I think that many people would agree with those  
19 comments, but my question to you would be not  
20 whether or not the Epworth Scale subjective  
21 measurements are good but do we have two  
22 randomized, controlled trials that show an  
23 improvement in subjective sleepiness.

24 DR. GUILLEMINAULT: That was my initial  
25 question because my understanding is, when the

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