

HOUSE OF REPRESENTATIVES
COMMONWEALTH OF PENNSYLVANIA

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House Bills 111 & 183

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House Judiciary Committee

Room 205, Capitol Annex
Harrisburg, Pennsylvania

Monday, March 8, 1999 - 9:40 a.m.

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BEFORE:

Honorable Thomas Gannon, Majority Chairperson
Honorable Patrick Browne
Honorable Daniel Clark
Honorable Brett Feese
Honorable Stephen Maitland
Honorable Kevin Blaum, Minority Chairperson
Honorable Frank Dermody

IN ATTENDANCE:

Honorable Kerry Benninghoff
Honorable Sara Steelman

KEY REPORTERS

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ALSO PRESENT:

Brian Preski, Esquire
Majority Chief Counsel

Judy Sedesse
Majority Administrative Assistant

Michael Rish
Minority Executive Director

Beryl Kuhr, Esquire
Minority Chief Counsel

Richard Scott, Esquire
Counsel, Democratic Caucus

Cathy Hudson
Minority Committee Secretary

LeAnne Bronstein
Minority Research Analyst

Dave Callen
Research Analyst II to Representative Peter
Daley

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1 ACTING CHAIRPERSON MAITLAND: Good
2 morning, ladies and gentlemen. I'd like to call
3 this public hearing of the House Judiciary
4 Committee to order. I'm State Representative
5 Steve Maitland of the 91st Legislative District
6 in Adams County.

7 Our hearing today is on House Bills
8 111 and 183 that have to do with the appropriate
9 scheduling of the date rape drug, gamma-
10 hydroxybutyrate. We have three prime sponsors
11 of the legislation with us this morning. I'd
12 like to introduce them and ask them for their
13 testimony and the reasoning behind their
14 introductions of this legislation.

15 Up first is the Honorable Kerry
16 Benninghoff of the 171st Legislative District.
17 Good morning, Kerry.

18 REPRESENTATIVE BENNINGHOFF: Thank
19 you very much, Representative Maitland. As I
20 was saying to some of the other people here
21 today, I think one of the important things about
22 having a public hearing is to get all the
23 different interests, comments and feelings
24 regarding any type of public policy that has to
25 be stated. That's my whole emphasis for

1 introducing this legislation along with some
2 specified concerns which I'll share. If you let
3 me begin, I'll share a few comments with you and
4 then take some questions later.

5 First of all, I'd like to say thank
6 you to Chairman Gannon who allowed me to do
7 this, the Minority Chairman and the rest of the
8 members of the Judiciary Committee for affording
9 me this time to introduce my legislation known
10 as House Bill 183. I'd also like to say thank
11 you for placing this important bill so early on
12 the legislative calendar of your committee.

13 My legislation is to place GHB,
14 gamma-hydroxybutyrate, and possibly its
15 precursor chemical GBL, and gamma-hydroxybutyric
16 acid sodium salt under the Controlled Substance
17 Act.

18 I have introduced this legislation
19 for several reasons. First by suggestion of my
20 wife, which I have to give credit to this for;
21 she had brought this to my attention after
22 seeing its devastating effects on two young
23 college students who had overdosed and were
24 patients in the Critical Care Unit in a hospital
25 within my legislative district in which she is

1 employed.

2 Some of you are aware that my
3 district represents parts of Penn State
4 University. I must say that this incident truly
5 hit home and showed how easily an overdose like
6 this can affect people, more specifically, the
7 young people right in our own neighborhoods.

8 A second reason is a result of my
9 past work as Centre County coroner and my nearly
10 nine years service as an autopsy assistant.
11 During those years, I saw too many lives claimed
12 by the ever-increasing abuse of so-called
13 recreational or party drugs, most specifically,
14 when mixed with alcohol.

15 As coroner, I was always frustrated
16 that by the time I received a patient it was
17 after the fact; after the time that I could do
18 anything to prevent that death, especially to
19 those that were due to foolish, accidental or
20 vicious acts of another. It was always very
21 tough to knock on a parent's door to notify them
22 of their loss, but more frustrating when it was
23 due to something that was preventable.

24 Today, you and I have the
25 opportunity to make a difference before another

1 accident or deliberate poisoning occurs. For
2 the purpose of the remainder of my comments, I
3 will refer to this drug as GHB and its major
4 compound as GBL.

5 I have three major areas of concern
6 with this drug. The first is the ever-
7 increasing recreational abuse by party-goers for
8 its euphoric and aphrodisiac effects, or in
9 layman's terms, another drug to get high on.
10 The second concern is how easily and readily
11 accessible it is; i.e., ordering it over the
12 Internet without a prescription, warnings or
13 monitored dosages.

14 In the July 1998 publication of GHB
15 Briefing Book by the United States Department of
16 Justice, Drug Enforcement Administration, it was
17 documented that there were 3,500 incidents of
18 GHB abuse, a number which dramatically increased
19 from 16 cases in 1992. Since 1992, the DEA
20 reports a total number of reported deaths caused
21 by GHB has risen to 32. I highlighted the word
22 reported because sometimes I think the things
23 are not always diagnosed adequately or often
24 reported. So these numbers could be lower than
25 what we think; they could be for real.

1 This article went on to say that in
2 Pennsylvania at least six individuals have
3 experienced life-threatening comas following
4 ingestion of GHB in 1998. Known abuse of GHB
5 has occurred so far in three counties of
6 Pennsylvania, Bucks, Indiana and Centre. And
7 again, I highlighted the word known because I'm
8 sure there are probably cases we're not aware of
9 or have been misunderstood.

10 The Bucks County case was that of
11 three young boys found unconscious by their
12 parents after the boys used GHB purchased in a
13 kit over the Internet.

14 My third concern and probably the
15 most frightening is the fact that GHB has become
16 the new date rape drug of choice. Why, might
17 you ask? Well, it's readily available; it is
18 clear, nearly tasteless and odorless. Most of
19 the cases I've read about, the victims had no
20 idea that they had taken a drug at all.

21 Because of its transparent
22 appearance, the predator simply slips it into a
23 victim's drink, which quickly makes the victim
24 suffer severe nausea, vomiting, and even
25 hallucinations. Most victims slip into an

1 unconscious or coma state leaving them helpless,
2 unaware, and unable to protect themselves from a
3 sexual assault. The period of unconsciousness
4 can last four to eight hours dose dependent with
5 the victims suffering amnesia.

6 In some instances and again dose
7 dependent, a victim can suffer respiratory and
8 cardiac arrests. Think about it. We have
9 non-medically trained, unlicensed individuals
10 giving unknown and unmeasured amounts of a
11 life-threatening drug to innocent victims. This
12 is plain, outright wrong. We would never allow
13 licensed physicians to dispense medication in
14 this irresponsible manner. No one else should
15 be able to do it either.

16 Last fall, I read an article about a
17 case in Indiana County where prosecutors were
18 unable to pursue charges in a case in which GHB
19 was to be used without the victim's knowledge.
20 This was because the drug is not illegal in the
21 State of Pennsylvania.

22 In the past six months, I have done
23 a lot of reading as well as interviews with
24 physicians, nurses, and law enforcement
25 officials in my area, as well as others that I

1 know from across the state.

2 Even though I am continuing my
3 research on this issue, I have learned all I
4 need to confirm my earlier intentions. Today, I
5 am formally announcing to you and your committee
6 that my intention is to amend this bill to list
7 GHB as Schedule I Controlled Substance.

8 This drug is not approved by the
9 Food and Drug Administration. Even more
10 significantly, the article stated that the FDA
11 has sent a warning out to consumers alerting
12 them not to purchase or consume this product.

13 These compounds are found in
14 products that claim to build muscle, improve
15 physical performance, enhance sex, reduce stress
16 and induce sleep. These enhancements are far
17 too often marketed to our young, immature, less
18 knowledgeable and highly impressionable sector
19 of our population. As policymakers, I think we
20 have the responsibility to protect these young
21 people.

22 This drug does not have any proven
23 medical necessity, even it were approved by the
24 FDA. While some may claim the need for this
25 drug to treat narcolepsy and cataplexy, I'll

1 argue that there are already at least five FDA
2 and clinically-proven prescription medications
3 available to these patients. These drugs are
4 currently in use and do not possess the
5 life-threatening side effects that we have seen
6 with GHB.

7 Below I have listed an excerpt from
8 page 1449 in my Merck Manual, 16th Edition.

9 This is a manual of diagnosis and therapy. It
10 should be noted that just last month, January
11 1999, the FDA approved Provigil as a new,
12 effective drug to treat narcolepsy.

13 Approved treatments for narcolepsy
14 and cataplexy, a symptom of narcolepsy can be
15 treated with one of various FDA approved drugs.
16 The Merck Manual stated: Stimulant drugs may
17 help; the dosage is regulated according to
18 individual need. Ephedrine 25 mg, Amphetamine
19 10-20 mg or Dextroamphetamine 5-10 mg orally
20 every three to four hours during daylight. The
21 recommend doses are tolerated without serious
22 untoward effects. Imipramine 10-75 mg a day is
23 the drug of choice to treat cataplexy.

24 It is important to note that I could
25 find no knowledge of an antidote for GHB as

1 well, a scary thought for those in the EMS field
2 and Emergency Room personnel who often receive
3 these patients in respiratory or full cardiac
4 arrest.

5 In conclusion, I think it is
6 important to note that while we know GHB is not
7 approved by the FDA, that there is no known
8 antidote and that there is no clinically proven
9 or accepted medical use for this compound, we do
10 know the following:

11 GHB has a high potential for abuse
12 primarily in teens and young adults. GHB is
13 addictive, creates substantial levels of
14 dependency. GHB is the fourth most popular date
15 rape drug of choice. Four, GHB's effects are
16 significantly enhanced when combined with
17 alcohol. GHB when abused can be
18 life-threatening; and finally, GHB does not meet
19 the criteria, in my opinion, of Schedule IV.

20 I have been given the expressed
21 support of scheduling GHB as a Schedule I drug
22 by my District Attorney, Ray Gricar; by Centre
23 County coroner, Scott A. Sayers; State College
24 Police Chief, Thomas King; and Doctor Margaret
25 Spears, Director of University Health Services

1 at Penn State and Chair of the Penn State Sexual
2 Assault Committee.

3 As a father of four, I do all I can
4 to protect them. As a legislator, we have the
5 opportunity to try to protect all of our young
6 people, yours, mine and many that we don't even
7 know.

8 As a fellow legislator, I ask that
9 after you listen to today's testimony and you
10 ask questions and you draw conclusions; that you
11 join me and our steadfast Attorney General as we
12 move to make GHB a Schedule I drug, and make
13 Pennsylvania a safer place for our young people.

14 Let's send a clear message to those
15 who would choose to victimize someone
16 unknowingly that we won't tolerate this in
17 Pennsylvania. Date rape is wrong. I have a
18 couple references on the back for any of you
19 that might have questions. I thank you.

20 ACTING CHAIRPERSON MAITLAND: Thank
21 you, Representative Benninghoff. Before I
22 continue, I'd like to note the presence of
23 Representative Kevin Blaum, the Democratic
24 Chairman of the committee on my right, and to my
25 left Brian Preski, the Majority Chief Counsel.

1 Now I'd like to ask the Honorable
2 Sara Steelman, of the 62nd Legislative District,
3 for her remarks this morning.

4 REPRESENTATIVE STEELMAN: Thank you
5 Representative Maitland. I appreciate the
6 opportunity to offer testimony on the issue of
7 controlling the manufacture and sale of date
8 rape drugs in Pennsylvania and commend the
9 Judiciary Committee for holding today's hearing.

10 About a year ago, I became
11 interested in the problem of reducing the
12 availability of drugs such as Rohypnol and
13 gamma-hydroxybutyric acid because of an incident
14 in the Borough of Indiana, which I represent.
15 The police raided a house where there was reason
16 to believe that drug synthesis was taking place.

17 In the event, however, the district
18 attorney discovered that he could not prosecute
19 the lab operators from making
20 gamma-hydroxybutyric acid because, although it
21 is a felony in Pennsylvania to use these drugs
22 to commit sexual assault, it is not illegal to
23 make or possess them.

24 This event happened a short time
25 after we had passed Representative Ellen Bard's

1 legislation criminalizing the use of these
2 drugs, and at about the same time I read a
3 report on the efforts of other states to ban
4 their manufacture, possession, use or delivery.
5 It seemed clear to me that we needed legislation
6 to do the same thing in Pennsylvania, and I had
7 a bill drafted that added Flunitrazepam, a name
8 for Rohypnol, and gamma-hydroxybutyric acid to
9 Schedule IV of the Controlled Substance, Drug,
10 Device and Cosmetic Act.

11 This bill was introduced in June of
12 last year, but like most bills introduced in the
13 last quarter of the legislative session, it did
14 not come before the House.

15 In the flurry of co-sponsorship
16 memos that marks the beginning of every new
17 session, I received two memos proposing
18 legislation similar in intent to House Bill
19 2680. In looking at House Bill 183,
20 Representative Benninghoff's bill; House Bill
21 111, Representative Dermody's bill; and H.B.
22 2680, it's clear that all three have the same
23 intent but slightly different language.

24 The two major differences seem to be
25 in the way the drugs are added to the schedule

1 and the specific drugs that are proposed to be
2 scheduled. We've just heard from Representative
3 Benninghoff that he also plans to make major
4 amendments to his bill and move this schedule
5 from Schedule IV to Schedule I. My inclination,
6 obviously, in thinking about this was to
7 consider these as Schedule IV drugs, and I look
8 forward to hearing today's discussion.

9 I added both gamma-hydroxybutyric
10 acid and Flunitazepam which is similar but not
11 the same. It has somewhat different effects and
12 it's different chemicals, but I think it should
13 also be added to the Controlled Substance List
14 because Rohypnol has been implicated in several
15 cases in sexual assault. However, as
16 Representative Benninghoff pointed out, GHB may
17 actually represent more of a threat because it's
18 easier for an amateur chemist to synthesize.

19 In any case, I think we should move
20 promptly to refine the language of the final
21 bill, bring it out of the House and encourage
22 the Senate to move on it with equal dispatch.

23 In the months since I first became
24 interested in this issue because of the problems
25 I was seeing in my own district, things have

1 gotten worse, not better. In addition to being
2 used as an adjunct to sexual assault, these
3 substances are apparently more commonly becoming
4 drugs of abuse. We need to pass this
5 legislation to give local law enforcement
6 officials the tools they need to do their job
7 and protect the citizens of Pennsylvania from an
8 increasing threat to their safety.

9 ACTING CHAIRPERSON MAITLAND: Thank
10 you very much, Representative Steelman. I have
11 been joined on my left by the Chairman of the
12 Committee, Representative Tom Gannon.

13 Now we'd like to hear the testimony
14 from Representative Frank Dermody, of the 33rd
15 Legislative District, who is also a member of
16 this committee. Representative Dermody.

17 REPRESENTATIVE DERMODY: Thank you,
18 Mr. Chairman, and I thank the committee for the
19 opportunity to testify here today. Liquid E,
20 Liquid X, Gamma-OH, these are some of the names
21 given to gamma-hydroxybutyric acid, or GHB. The
22 drug is also known as the date rape drug because
23 it is well known for the role it plays in
24 violent crimes against women. Dispensed in
25 small liquid doses, GHB is difficult to detect

1 with the senses and can easily render users
2 unconscious.

3 It has been marketed as a steroid
4 alternative for body building, and it has gained
5 favor as a recreational drug because of its
6 intoxicating effects.

7 It is important to note that the
8 United States Food and Drug Administration has
9 not regulated GHB. In lieu of federal
10 regulation, many states have begun to regulate
11 it. According to the Drug Enforcement
12 Administration, 18 states have listed GHB as a
13 controlled substance and three have criminalized
14 it.

15 Most of the states who have
16 regulated GHB have done so through statutes;
17 only two have done so through regulations. We
18 have distributed maps to all the members here
19 today in attendance to indicate which states
20 have regulated GHB. And you will note it's
21 Texas, I think New Jersey and Massachusetts that
22 have even criminalized it.

23 Regulating the drug is important.
24 It will determine how enforcement agencies and
25 prosecutors should respond to the possession,

1 use and selling of the drug.

2 It is vital that Pennsylvania
3 regulate this drug so that we can protect our
4 children. In Michigan, a 15-year old girl died
5 after drinking alcohol that was laced with a
6 date rape drug. We can't let that happen here.

7 GHB doesn't just render people
8 unconscious. In higher doses the drug can cause
9 breathing problems, seizures, coma and death.
10 In 1997, the FDA blamed GHB for at least three
11 deaths.

12 Just the other day I was surfing the
13 Internet and put G-H-B into a search engine.
14 What I found shocked me. I came across a
15 message board on the drug. Let me read to you a
16 little of what I found.

17 This was written by anonymous and
18 posted on the site just a month ago: I can tell
19 you that GHB kicks women out within 20 minutes.
20 Once asleep you can do what you want for four
21 hours, and generally have a great time. Even if
22 they wake up, which does happen, they will fall
23 back to sleep within a few seconds, and you can
24 continue whatever you feel like doing. They
25 will never remember anything. As long as they

1 do not wake up in a strange place or in strange
2 circumstances, they will not suspect anything.

3 From here, the message becomes
4 extremely graphic and describes things one can
5 do to a person under the influence of GHB.

6 I found other web sites that told
7 people where to buy the drug, how to use it and
8 how it can affect you. I have even found
9 several companies who sell the drug over the
10 Internet. Now, those companies did say they
11 couldn't ship to states that have restricted the
12 drug, but they also said that their mailing
13 lists were confidential and their orders were
14 shipped in a plain, sealed carton.

15 It's time to put a stop to the abuse
16 of this deadly drug, but first we must regulate
17 it. Thank you. Thank you, Mr. Chairman.

18 CHAIRPERSON GANNON: Thank you,
19 Representative Dermody. Any questions?
20 Representative Maitland.

21 REPRESENTATIVE MAITLAND:
22 Representative Dermody, could you give a brief
23 description of what the different schedules
24 mean? What's the difference between I, II and
25 IV?

1 REPRESENTATIVE DERMODY: The
2 different schedules indicate, for the most part,
3 its usefulness and whether or not there's any
4 medical purposes or medical use to the drug at
5 all. The Schedule II, for instance, has a high
6 potential for abuse, currently accepted medical
7 use in the United States but with severe
8 restrictions.

9 A Schedule IV, for instance, that
10 there's a low potential for abuse and it has
11 some higher medicinal purposes. Therefore, the
12 Schedule IV substance would be able to obtain
13 with a prescription. Schedule I, obviously, is
14 outlawed and virtually that the manufacture of
15 the drug would be prohibited.

16 REPRESENTATIVE MAITLAND: Thank you.
17 Representative Steelman, you discussed also
18 adding Flunitazepam. Could you describe that a
19 little bit again? I didn't quite catch why you
20 wanted to include that as a controlled
21 substance.

22 REPRESENTATIVE STEELMAN: Well,
23 Flunitazepam is a chemical name for the drug
24 Rohypnol. Rohypnol, although, apparently, it's
25 not directly related, it's not a synthetic

1 product of GHB, but nevertheless, has many of
2 the same hypnologic anesthetic properties. It
3 has been implicated in similar types of sexual
4 assault to that which is noncharacteristic with
5 GHB. It seems to me that whatever we are doing
6 about GHB we may also want to do to control the
7 availability of Flunitazepam.

8 REPRESENTATIVE MAITLAND:

9 Representative Benninghoff, you testified that
10 kits are available over the Internet. Does that
11 mean that you can make this stuff at home?

12 REPRESENTATIVE BENNINGHOFF: As

13 Representative Dermody said, yes, it can be
14 prefabricated at home. That's a concern.
15 Obviously, when someone else is mixing it, you
16 don't know what they may or may not be including
17 in it; whether they are mixing the compound
18 according to any type of instructions that may
19 be included.

20 As I said, I worked in an E.R. for
21 many years, and one of the biggest concerns we
22 had with drug abuse was how it was cut and what
23 it was cut with. That sometimes the pure form
24 of different drugs or the pharmaceutically
25 distributed drugs sometimes were not as

1 dangerous as the cut drugs. I think that really
2 leaves a large door open to all types of
3 problems with subsequent chemical compounds that
4 may be mixed up.

5 REPRESENTATIVE MAITLAND: One last
6 question for any of you that wish to answer.
7 Representative Benninghoff stated that there's
8 no proven medical necessity for this particular
9 drug, GHB, and that there are alternative
10 medicines available. Do you all agree with
11 that?

12 REPRESENTATIVE DERMODY: Well, I
13 don't know that we're sure. We understand that
14 there's some treatment for narcolepsy, I
15 believe; is that right?

16 REPRESENTATIVE BENNINGHOFF: Yes.

17 REPRESENTATIVE DERMODY: I think
18 we'll hear some evidence and testimony on that
19 subject today. So that may well clear that up.

20 REPRESENTATIVE STEELMAN: I'm
21 looking forward to hearing from the
22 pharmacologists and clinicians about the drugs.

23 REPRESENTATIVE BENNINGHOFF: Since I
24 made the comment, I'd just like to say I think
25 it's important that the FDA, one of our

1 governing bodies who has given approval for
2 these drugs, does not approve it. I think
3 that's a pretty loud statement. In addition to
4 that, as I said, according to my Merck Manual,
5 there are at least five other FDA prescribable
6 drugs to treat narcolepsy as far as cataplexy as
7 well. As I said, I'm willing to listen to
8 testimony, but I think there are other
9 alternatives out there.

10 REPRESENTATIVE MAITLAND: Thank you.
11 No more questions, Mr. Chairman.

12 CHAIRPERSON GANNON: Thank you very
13 much, Representative Benninghoff, Representative
14 Steelman and Representative Dermody for
15 appearing before the committee and sharing your
16 thoughts on this important legislation. If you
17 would wish to join the committee, you are
18 welcome to do so.

19 Our next witness is the Honorable
20 Michael Fisher, Attorney General for the
21 Commonwealth of Pennsylvania. Welcome, General
22 Fisher, and you may begin when you are ready.

23 ATTORNEY GENERAL FISHER: Mr.
24 Chairman, members of the committee, I'm very
25 pleased to be here today. I'm joined by Andy

1 Dermarest, Senior Deputy Attorney General from
2 our office who has worked with me on this issue
3 involving GHB.

4 First of all, I'd like to commend
5 Representative Benninghoff, Representative
6 Dermody, and Representative Steelman for their
7 legislative efforts in introducing the
8 legislation that they previously appeared before
9 this committee on.

10 As you know, at the present time GHB
11 is not illegal under Pennsylvania law.
12 Therefore, narcotics agents across the state are
13 unable to stop this drug from getting into the
14 hands of the wrong people. Although GHB has
15 been criminalized now in 22 states, the people
16 of Pennsylvania are still unprotected. That's
17 why I strongly recommend to this committee that
18 it pass legislation to place GHB under the
19 Controlled Substances Act and to list it as a
20 Schedule I drug.

21 GHB users by the thousands have
22 suffered life-threatening medical emergencies,
23 dozens have died, and many women have been
24 victims of GHB-induced rape.

25 Here's just one story: A little

1 over two years ago, Andrea Jeffries, then a
2 23-year old college student living in Southern
3 California, learned all about GHB. Andrea
4 reported how a man pressured her to drink an
5 alcoholic beverage he bought for her at a bar.
6 Immediately I felt buzzed said Andrea. I
7 couldn't see clearly. I started to fall out of
8 my chair. It was like I was very drunk, but it
9 didn't make any sense because I had only had one
10 drink. Within the next few minutes Andrea
11 blacked out.

12 She recalls slipping in and out of
13 consciousness throughout the night until she
14 awoke on the floor of the shower in the man's
15 apartment. She was naked, lying in a fetal
16 position. I remember him coming into the
17 bathroom, says Andrea. At that point, he raped
18 her. It was like everything was in slow motion,
19 she recalls.

20 She blacked out again, and when she
21 came to she was still being raped. This time he
22 was holding me down by my neck and I was
23 screaming, says Andrea. After the attack, she
24 balled up on the bed and cried.

25 As the effects of GHB began to wear

1 off, Andrea grabbed a cordless phone, locked
2 herself in the bathroom and called the police.
3 Meanwhile, the man ripped the phone unit out of
4 the wall and began ramming the door. Moments
5 after he burst in, the police arrived and
6 ushered her to safety.

7 The man was convicted and sentenced
8 to jail, but Andrea is still living with the
9 terror of that night. I'm not the same person I
10 was before, she said. All I took was one drink,
11 and my life has been changed forever.

12 GHB is hardly the only date rape
13 drug to make the headlines. Until recently,
14 Rohypnol, which is a Schedule I controlled
15 substance, was the most affective date rape
16 drug.

17 But, one twist makes GHB much
18 scarier than Rohypnol. Unlike Rohypnol, which
19 can only be manufactured commercially, GHB is
20 easily produced at home. Anyone with Internet
21 access can find a way to buy the recipe and the
22 kit and cook up a batch. I heard Representative
23 Dermody referring to the ease with which GHB can
24 be concocted.

25 It also has dual action on the

1 brain. Like cocaine, it stimulates nerve cells
2 that respond to the chemical messenger dopamine,
3 producing an excitatory effect. Like heroin, it
4 activates natural opium-like substances within
5 the brain, causing sedation. Taking GHB is sort
6 of like taking heroin and cocaine at the same
7 time. Because it's home-brewed, its potency can
8 vary widely from batch to batch. This means
9 even a single dose could prove deadly.

10 Those who make GHB at home don't
11 realize that the formulas aren't exact, and the
12 amount that simply intoxicated someone the first
13 time can just as easily kill them the next.

14 Let's take a look at the results of
15 GHB use in the past two months. On January
16 16th, 1999, two 15-year old girls from Michigan
17 drank a GHB-laced beer at the apartment of an
18 older boy they had just met. Both girls went
19 into comas. One girl awoke from that coma 15
20 hours later. The other girl did not. She was
21 later pronounced dead.

22 On January 24th, at 5:30 a.m. an
23 18-year old boy from New York was found
24 collapsed, convulsing and foaming at the mouth
25 on a loading dock next to a nightclub. When the

1 ambulance arrived, young Jimmy Lyons was
2 pronounced dead at the scene. The cause of
3 death was an overdose of GHB. Just a week
4 before this tragedy, a dozen young patrons of
5 another New York nightclub overdosed on CHB.

6 On February 17, two brothers were
7 found guilty of raping a Georgia college
8 student. The brothers bought some GHB near the
9 school and offered it to two female students.
10 One of the women passed out in the bathroom,
11 near death, and the brothers brutally assaulted
12 the other while she was unconscious in her dorm
13 room. A male friend of one of the girls who
14 stopped by noticed the girls seemed disoriented
15 and called 911. Paramedics arrived while the
16 dazed woman was still being raped.

17 On February 20th, three Florida
18 teenagers were rushed to the Emergency Room
19 after drinking GHB they concocted from a recipe
20 they found on the Internet. The father of two
21 of the boys found his sons vomiting violently
22 and called rescue crews. Their friend was found
23 an hour later lying unconscious in a bush near
24 the family's driveway. The night before the
25 boys' mother found a recipe for GHB lying on the

1 older son's desk.

2 These are just some of the
3 tragedies. Most incidents go unreported.

4 In September of 1998, I petitioned
5 the Pennsylvania Department of Health's Drug,
6 Device and Cosmetic Board and asked the agency
7 to use its authority to classify GHB as a
8 Schedule I controlled substance. The Drug,
9 Device and Cosmetic Board heard testimony this
10 January of my petition. The board recommended
11 that the Secretary classify GHB as a controlled
12 substance, but it recommended that it be placed
13 in Schedule IV.

14 Although we are pleased that the
15 board wanted to criminalize this dangerous drug,
16 I reiterated my position that the correct
17 classification for GHB is Schedule I and not
18 Schedule IV. We are still awaiting the
19 Secretary of Health's decision on this.

20 Schedule IV, in my opinion, is
21 clearly the wrong schedule for GHB. Schedule IV
22 is for drugs that can be prescribed for medical
23 use. It is illegal to prescribe GHB for medical
24 or other use. GHB has been banned for medical
25 use by the Federal Food and Drug Administration.

1 The FDA has conducted over 45 criminal
2 investigations of those who sell GHB.

3 So, considering GHB as a Schedule IV
4 at this point is really moot. Even if
5 Pennsylvania were to schedule the drug as a IV,
6 it would still be illegal to prescribe it under
7 federal law. Even if it were approved by the
8 FDA, and this is pure speculation--There's no
9 indication at this time that the FDA has this
10 under any serious consideration--it should not
11 be placed on Schedule IV.

12 In order to meet the criteria for
13 IV--I think you heard some of that, but let me
14 repeat--the drug must have a low potential for
15 abuse. Second, it must have a currently, and I
16 emphasize currently accepted medical use
17 relative to substances in Schedule III, and have
18 limited physical or psychological dependence
19 liability relative to substances in Schedule
20 III. GHB does not meet any of these criteria.

21 First, there is a high potential for
22 abuse. According to the Drug Enforcement
23 Administration, GHB is used to get high in 80
24 percent of the cases and is mixed with alcohol
25 or other drugs in a hundred percent of those

1 cases. It's abused by party-goers for its
2 euphoric and aphrodisiac effects. It also is
3 used as an alternative to Ecstasy and
4 amphetamine sulfate.

5 In 1990, the FDA banned CHB stating:
6 It had caused more than 30 people to become ill
7 with symptoms ranging from nausea and vomiting
8 to severe respiratory problems, seizures and
9 comas. Because of its continued abuse, the FDA
10 had to repeatedly issue warnings that GHB is
11 illegal and widely abused.

12 The DEA has documented over 3,500
13 incidents of GHB abuse, a number which has
14 increased dramatically from 16 cases in 1992.
15 The total number of deaths caused by GHB has
16 risen to 32. In Pennsylvania, at least eight
17 individuals have experienced life-threatening
18 comas following ingestion of GHB in 1998 alone.

19 In March of '98, five young people
20 from Bucks County ingested GHB they had
21 purchased over the Internet; all were
22 hospitalized with life-threatening comas. In
23 May, a 16-year old Centre County girl overdosed
24 on GHB. In July, two Penn State students were
25 rushed to the Emergency Room after ingesting

1 GHB. Both faced life-threatening side effects
2 including seizure and coma. Last April, police
3 raided a clandestine drug manufacturer near
4 Indiana University of Pennsylvania and seized
5 thousands of doses.

6 GHB has become the new date rape
7 drug of choice. Because it's a clear, nearly
8 tasteless, odorless drug over half of its
9 victims do not know how it got into their
10 system. It knocks the girl unconscious for four
11 to eight hours, in which time the rape is
12 committed, and she awakens suffering from
13 amnesia and unable to recall what happened.

14 The DEA is aware of at least nine
15 sexual assault cases involving 19 victims under
16 the influence of GHB. GHB is now the fourth
17 most commonly used drug to commit date rape,
18 surpassing the notorious Rohypnol. Clearly, GHB
19 is highly abused.

20 Second, there is no accepted medical
21 use of GHB. It's never been approved by the FDA
22 despite having undergone years of clinical tests
23 by Orphan Medical, who you will hear from, I
24 believe later. Orphan Medical believes it
25 should be listed as a Schedule IV. However, it

1 is the scientists at the FDA who approve drugs
2 for medical use; not executives of drug
3 companies.

4 Furthermore, if this committee makes
5 GHB a Schedule I controlled substance, it will
6 not take this drug out of the hands of one
7 narcolepsy patient in Pennsylvania or anywhere
8 else. Schedule I will not prevent Orphan
9 Medical from distributing this drug within its
10 clinical trials. So there is still that
11 exception which will be permitted.

12 The third, GHB has more than limited
13 physical or psychological dependence. We
14 already talked a little bit about that.

15 A physician asked by Orphan Medical
16 to testify at an earlier hearing stated that my
17 guess was that GHB would probably be unlikely to
18 induce physical dependence because it has a very
19 short half life. He goes on to say, that drugs
20 with a very short half life are not likely to
21 easily produce physical dependence. Actually,
22 some of the most addictive and physically
23 dependent drugs in the world, like crack
24 cocaine, have a very short half life.

25 Although Orphan Medical has

1 conducted no tests on GHB's dependence
2 liability, it stated that GHB's half life is
3 about four hours. Well, the half life for crack
4 cocaine is only 30 to 150 minutes. Most crack
5 addicts report intense cravings for the drugs
6 and claim they'll do anything to get it.

7 I would like to see some more
8 scientific research on the dependence liability
9 of GHB before we should consider allowing this
10 drug to be marketed or sold as a sleep aid.
11 Frankly, we have our hands full treating
12 Pennsylvanians addicted to crack, cocaine,
13 heroin, alcohol and other drugs. We don't need
14 any more.

15 However, GHB does meet the
16 requirements for Schedule I. A Schedule I drug
17 must have the following: A high potential for
18 abuse; no currently accepted medical use and; a
19 lack of accepted safety for use under medical
20 supervision.

21 In response to number 1, we know GHB
22 is highly abused. In response to number 2, we
23 know that GHB is not approved for medical use.
24 In response to number 3, there is a potential
25 lack of safety for use under medical supervision

1 because Schedule IV controls on patients are
2 weak.

3 For instance, instead of being
4 required to obtain the drug with a physician's
5 prescription on a monthly basis, where the
6 physician can supervise and keep track of the
7 patient's use, under Schedule IV, the patient
8 may simply be mailed large quantities of GHB for
9 as many as 12 months with only one prescription.
10 The company will mail the drug directly to the
11 patient.

12 In fact, Orphan Medical asserts that
13 it will keep track of patient use, and it will
14 be alerted if there is a danger of a patient
15 overdosing or if the drug is being diverted. In
16 my view, that's not the safe way to distribute
17 and use a drug that is so dangerous and so
18 highly abused.

19 The patient's doctor should
20 supervise the use of this drug, not the company
21 that wants to profit from its sale. The
22 committee needs to act to control GHB and place
23 it in the appropriate category, Schedule I.

24 I would like to also make some brief
25 reference to GBL, if I could, Mr. Chairman. The

1 committee should know that the FDA has banned
2 GHB for medical use and 22 states have
3 criminalized it, but some distributors have
4 turned to selling its central ingredient, GBL.
5 Let me take a few minutes to talk about this
6 other highly dangerous drug.

7 Although over 80,000 metric tons of
8 GBL are sold every year by chemical companies
9 for use as floor stripper, circuit board
10 cleaners and other legitimate uses, it is now
11 being sold by illicit operators as a substitute
12 for GHB. They are setting up web sites and
13 selling GBL as a dietary supplement, sex
14 enhancement or sleep aid under labels like Blue
15 Nitro, Renewtrient and RemForce.

16 A woman in Florida overdosed and
17 died from GBL sleep aid, Renewtrient. GBL has
18 caused life-threatening side effects in at least
19 55 people. In January, the FDA issued a
20 voluntary recall of products containing GBL.

21 In response, I recommend to this
22 committee that the committee consider
23 legislation to list GBL as a chemical subject to
24 registration under the Non-Controlled Substances
25 Reporting and Registration Act. This act will

1 require manufacturers and web site operators to
2 register with the Department of Health and to
3 obtain from the buyer a photo driver's license
4 and a signed statement providing a full
5 description of how the substance is to be used.

6 This will also cause illicit
7 operators to stop selling GBL because they will
8 not want law enforcement to know how they are
9 selling or how we can find them. It will
10 prevent Pennsylvania's children from purchasing
11 GBL over the Internet or at the local hardware
12 store.

13 Mr. Chairman, I also have provided a
14 list -- provided you with a series of letters
15 from relevant authorities supporting our request
16 on GHB. Each of the following individuals and
17 institutions is calling for GHB to be listed as
18 a Schedule I controlled substance.

19 They are the Pennsylvania District
20 Attorneys Association, Executive Committee;
21 District Attorney Ray Gricar from Centre County;
22 District Attorney Alan Rubenstein from Bucks
23 County; the Chiefs of Police of State College
24 and Middletown Townships; the Director of the
25 Pennsylvania State University Health Services;

1 the Medical Director of Poison Control Center at
2 Children's Hospital of Philadelphia; the
3 forensic toxicologist at the National Medical
4 Services; and Mrs. Rumburg, Executive Director
5 of the Pennsylvania Coalition Against Rape.

6 With that, Mr. Chairman, and members
7 of the committee, I'll be glad to answer any
8 questions that you or the committee members may
9 have.

10 CHAIRPERSON GANNON: Thank you very
11 much, General Fisher. Any questions from the
12 members of the committee? Brian.

13 MR. PRESKI: One question, General.
14 If I could play devil's advocate with you. One
15 of the things that we hear from the, I guess not
16 the supporters but the parties that would not
17 like to see this as a Schedule I drug is
18 basically that if we do change this to a
19 Schedule I, we're not going to change the
20 Internet sites available or the recipes that are
21 available to make this drug. Do you have any
22 comment on that, sir?

23 ATTORNEY GENERAL FISHER: Quite
24 frankly, Counsel, I think that regardless of
25 what schedule we put this drug on, we're going

1 to have difficulty controlling what is being
2 peddled over the Internet. The fact of the
3 matter is, the problem which we have today is we
4 can't penalize anybody who gets the substances
5 and peddles the drug. That's the real
6 difference.

7 If somebody is trying to make an
8 argument that Schedule IV is going to make it
9 easier to control the Internet, I can't buy
10 that. But in fact, if we have penalties in
11 place that can penalize those who improperly
12 manufacture, distribute or use this, then I
13 think that we'll control at least the
14 distribution of this drug in Pennsylvania.

15 MR. PRESKI: Thank you, General.

16 CHAIRPERSON GANNON: Thank you very
17 much.

18 ATTORNEY GENERAL FISHER: Mr.
19 Chairman, I'd like to make a couple additional
20 comments. I know that Representative
21 Benninghoff has done a lot of research into this
22 as have the other members. I commend -- I know
23 that he's proposed amending his bill to move it
24 from Schedule II to Schedule 1.

25 I'd also like to comment, perhaps

1 this committee is somewhat interested on the
2 process through the Drug, Device and Cosmetic
3 Board, the alternative process by which one can
4 schedule a drug in Pennsylvania. It's
5 interesting to us and I give credit to the
6 Secretary for convening the board and the
7 citizen members on the board who were in
8 attendance that day in January.

9 The Drug, Device and Cosmetic Board
10 interestingly enough is a board that very seldom
11 meets. It's been, perhaps, years since the
12 Drug, Device and Cosmetic Board actually was
13 brought together to consider any listing,
14 delisting or changes.

15 But yet, it is a mechanism under the
16 jurisdiction of the Secretary of Health which
17 does provide some flexibility as to when the
18 General Assembly acts. I believe that at this
19 time the preferred way to proceed in this state
20 is for the General Assembly to make a decision
21 on GHB. And then recognizing that there's room
22 for flexibility, to work with the Secretary of
23 Health to determine any changes in the future,
24 whether it be by moving around in the schedule,
25 whether it be this drug or any others.

1 But, by at least placing this on the
2 schedule, the General Assembly has I think some
3 control to make sure that the Secretary is able
4 to come back to you to say, this is what we find
5 and this is where we should go. It's an
6 alternative to try to get substance scheduled,
7 perhaps, more quickly than the legislative
8 process, but actually as we found through there
9 with necessity for regulations and, perhaps, the
10 unfamiliarity of most of the members of the
11 board, we prefer in this instance the fact that
12 this General Assembly and this committee is the
13 better of the two choices to institute and
14 finalize this process.

15 I bring that to your attention,
16 because I know as a member and my position as
17 chief law enforcement officer I knew that board
18 was there. Having filed this petition I was
19 never really aware as to how active they have
20 been.

21 CHAIRPERSON GANNON: Thank you,
22 General Fisher.

23 REPRESENTATIVE STEELMAN: General,
24 could you expand on your control of GBL, the
25 precursor of GHB through registration? I'm

1 reading both in your testimony and in the
2 supporting letter from National Medical Services
3 that GBL has as high abuse potential as GHB.
4 Yet, we're proposing, you're suggesting that we
5 should apply much more relaxed controls to it.
6 I understand the problem that this is obviously
7 widely used for commercial purposes.

8 On the other hand, it appears to be
9 as dangerous a drug as the drug that you're
10 proposing we make a Schedule I, absolutely
11 restrictive drug. Could you expand a little bit
12 on why you think the proposal to acquire that
13 sellers of GBL get a copy of the photo driver's
14 license and a signed statement providing a
15 description of how they are going to use this
16 material is actually going to exercise the kind
17 of controls that we need to?

18 ATTORNEY GENERAL FISHER: The major
19 difference is that there is an already accepted
20 commercial use for GBL. There are 80,000 metric
21 tons a year sold for various commercial
22 purposes. It's going to be used. We think that
23 this very little used provision of registration,
24 at least based on what we now know about GBL, is
25 an acceptable way to control the illicit

1 marketing of GBL, while at the same time
2 allowing GBL to remain on the market for its
3 otherwise legitimate commercial use.

4 We suggest to the committee that
5 this is an acceptable way to try to regulate
6 GBL, while at the same time recognizing, that
7 since it is a precursor to GHB, the
8 criminalizing of the possession of GHB will be
9 the opportunity to penalize those people who try
10 to abuse it, as well as those people who may
11 divert the sale of it to people who aren't,
12 obviously, using it for commercial uses.

13 REPRESENTATIVE STEELMAN: I
14 understand the problem, but it does seem -- The
15 Schedule I drug requirements don't say no
16 currently accepted commercial use. They say no
17 currently accepted medical use. Am I right in
18 assuming that there is no currently accepted
19 medical use for GBL?

20 ATTORNEY GENERAL FISHER: Not that
21 we're aware of.

22 REPRESENTATIVE STEELMAN: So, in
23 fact, GBL also has high potential for abuse, no
24 currently accepted medical use and a lack of
25 accepted safety use under medical supervision.

1 ATTORNEY GENERAL FISHER: That would
2 be accurate except for the fact that it does
3 have a commercial utilization and it is -- As
4 you say, you can go to various hardware stores
5 and you can buy GBL today, but the problem is,
6 anybody who has it for sale is not required to
7 tell who they are selling it to. At least by
8 schedule using this registration system we would
9 gain that control over it until we learn more
10 about it.

11 REPRESENTATIVE STEELMAN: If we
12 adopt this registration strategy, does that mean
13 that every retail seller will have to keep the
14 registry of all of the buyers; that is, if you
15 go into your True Value Store and you are
16 looking for a floor stripper that contains GBL,
17 someone behind the counter will take your name,
18 your driver's license number?

19 ATTORNEY GENERAL FISHER: That's
20 correct.

21 REPRESENTATIVE STEELMAN: And then
22 who will come around from Harrisburg and look at
23 those registrations?

24 ATTORNEY GENERAL FISHER: They are
25 required to be filed with both the Secretary of

1 Health and with my office.

2 REPRESENTATIVE STEELMAN: Thank you.

3 ATTORNEY GENERAL FISHER: To make it
4 clear, people aren't walking in -- I know I've
5 never walked into -- I guess that reflects on
6 the amount of floors that I have cleaned, but I
7 don't walk into any hardware stores to buy GBL.
8 Although it has a use, it's not commonly
9 purchased in your hardware stores. So if you
10 saw a run on this, it might be a very good
11 indication that people are using it for other
12 than legitimate purposes. At least this form of
13 registration would require these statutes.

14 CHAIRPERSON GANNON: Representative
15 Blaum.

16 REPRESENTATIVE BLAUM: General, I
17 congratulate you on your testimony and your
18 efforts to push this legislation. It seems to
19 me one of the most insidious aspects of this
20 cocktail is the fact that it's odorless and
21 tasteless. Is it unreasonable or at all
22 possible that we could require in the retail
23 sale of Pennsylvania some kind of odor or taste
24 that is not offensive for -- that would not be
25 in conflict with its commercial uses?

1 ATTORNEY GENERAL FISHER: That is
2 possible. That could also be something that the
3 FDA could require. If the FDA said that there
4 was an acceptable medical use, they could
5 require the manufacturer whether it be Orphan or
6 someone else to add some taste to it to tip
7 people off that it wasn't the normal martini
8 that you were drinking when this particular
9 substance was added.

10 That's one thing that I think the
11 FDA in approving various marketing techniques
12 would have better control over than one
13 individual state.

14 REPRESENTATIVE BLAUM: I was once
15 told and I don't know if it's true, that natural
16 gas has no odor. The odor is added so that you
17 know if your house is about to blow up. That's
18 something that we might be able to look into.

19 ATTORNEY GENERAL FISHER: It's
20 something that could be considered. However,
21 the scheduling system really doesn't give
22 Pennsylvania a qualitative approval process over
23 various drugs. Because a drug like this is sold
24 interstate, across the whole country, that's why
25 I think the FDA is a better entity. Let them do

1 the testing; let them make some decisions on
2 medical use and if components need to be added
3 for safety purposes.

4 One thing that you may want to do,
5 this committee may want to do, is in adopting
6 this legislation, take a position recommending
7 to the FDA that that kind of additive be
8 considered before any legitimate medical use be
9 considered by them.

10 REPRESENTATIVE BLAUM: Very good.

11 MR. PRESKI: General, one question.
12 Do you have any indication if the Department of
13 Health will act soon, at anytime or whenever?

14 ATTORNEY GENERAL FISHER: I do not.

15 MR. PRESKI: Thank you.

16 CHAIRPERSON GANNON: Thank you very
17 much, General Fisher, for appearing before the
18 committee today and sharing your thoughts on
19 this very important legislation.

20 Our next witness is Patti Engel,
21 Vice-President of Orphan Medical, and joining
22 her is Matthew Speakman. Welcome, Ms. Engel,
23 and you may proceed when you are ready.

24 MS. ENGEL: Thank you very much.

25 Mr. Chairman, members of the Committee: My name

1 is Patti Engel. I work for Orphan Medical, a
2 very small company in Minnesota that specializes
3 in developing medicines for people with rare
4 diseases. In fact, we're the only company in
5 the country who specializes in the treatment of
6 patients with very rare diseases. These are
7 life-threatening rare diseases that most people
8 have probably never heard of.

9 Life-threatening diseases like
10 Congenital Sucrase-Isomaltase Deficiency, which
11 is a genetic disorder that leaves children
12 unable to metabolize sugars and starches,
13 leading to malnutrition and developmental
14 delays. Diseases like Homocystinuria in which
15 children cannot convert homocystine which
16 becomes toxic material in the blood leading to
17 mental retardation, blindness and death.

18 Both of these serious medical
19 conditions affect fewer than 1,000 children in
20 the United States, not the size of patient
21 population that typical pharmaceutical companies
22 are interested in. We've developed medicines to
23 help people live a normal life.

24 I'd like to say that at the outset
25 that we and the Attorney General share an awful

1 lot of common ground. Home-brewed GHB is
2 poisonous. Young people are dying senselessly.
3 Young women are fearful about leaving drinks
4 unattended. And we agree that illicit use of
5 gamma-hydroxybutyrate or GHB should be severely
6 penalized. We simply have different means of
7 achieving this end, but the end is still the
8 same.

9 Orphan Medical first heard about GHB
10 back in 1994. The U.S. Food and Drug
11 Administration, the FDA, did something that it
12 rarely does. It asked us, a drug company, to
13 develop a promising new medication.
14 Specifically, it asked us to develop GHB to
15 treat a rare disease called narcolepsy, and an
16 even rarer symptom of that disease called
17 cataplexy.

18 Narcolepsy is a disabling sleep
19 disorder that affects about 180,000 Americans,
20 about the size of Beaver County, including about
21 6,000 people here in the State of Pennsylvania.
22 Typically, people with narcolepsy exhibit
23 excessive daytime sleepiness and something
24 called cataplexy which is a sudden and total
25 loss of muscle control. A total cataplectic

1 attack results in immediate, complete body
2 collapse during which a person appears
3 unconscious. In reality, however, the person is
4 quite awake and alert but unable to walk, talk
5 or move despite the great pain and potential
6 danger resulting from a fall. Cataplexy is
7 often triggered by stress, fatigue or emotion.

8 Cataplexy affects about 65 percent
9 of narcoleptic patients, and we estimate to
10 around 4,000 patients here in the State of
11 Pennsylvania are affected by cataplexy. Because
12 of unpredictability and frequency of attacks,
13 people with cataplexy are unable to live the
14 life that you and I are accustomed to. They
15 can't usually work outside the home. They can't
16 drive a car, operate machinery and young mothers
17 tell us that they can't hold their babies for
18 fear of dropping them.

19 While the excessive daytime
20 sleepiness component of narcolepsy is, in fact,
21 treated with a number of medications, including
22 newly-approved medication called Medafinil or
23 Provigil as Attorney General so eloquently
24 described. There is virtually nothing that
25 patients with cataplexy can utilize.

1 For many years now cataplexy has
2 been treated with tricyclic antidepressants.
3 Unfortunately, they are minimally effective.
4 They cause undesirable side effects, and about
5 ten years ago FDA learned that GHB is, in fact,
6 effective in treating cataplexy. It appears to
7 induce a deep and restful sleep that people with
8 cataplexy don't ordinarily experience. It
9 promotes REM, or rapid eye movement sleep, and
10 does, in fact, reduce cataplexy attacks.

11 Early on, other pharmaceutical
12 companies attempted to develop this medication.
13 But it does take millions of dollars to develop
14 a drug to FDA requirements, and those companies
15 simply failed.

16 About five years ago, after being
17 approached by the FDA about developing GHB, I
18 myself had the chance to visit sleep centers
19 where GHB was being used as an experimental
20 treatment for cataplexy. I spoke firsthand to
21 patients who were using this medication. GHB
22 they said had changed their lives. I heard
23 grown men weep as they describe the impact of
24 this medication in their lives. By using GHB,
25 cataplexy attacks in some patients went from as

1 many as 50 a day to two a month. It gave
2 patients relief they needed to get into the real
3 world and live.

4 Frankly, these testimonials sound
5 too good to be true. As a pharmaceutical
6 company we are not accustomed to hearing of
7 outrageous results with medications for
8 diseases. We were skeptical and had to
9 scientifically put this to a rigorous test to
10 validate or disprove the claims of the patients
11 and researchers. Under FDA's guidance we
12 initiated rigorous, well-controlled clinical
13 trials of GHB in 1998 at sleep centers in 14
14 states. In August 1998, we presented the
15 results of our clinical findings to the FDA.

16 FDA viewed the evidence as so
17 significant that it asked us to consider
18 conducting what is called a treatment IND. The
19 purpose of treatment IND is to increase patient
20 access to experimental medications that have
21 showed strong evidence of safety and
22 effectiveness during the time that FDA is
23 formally reviewing the technical components of a
24 new drug application.

25 Treatment INDs are granted to only

1 promising medications used to treat severely
2 debilitating or life-threatening conditions such
3 as cancer, AIDS, severe Parkinson's syndrome,
4 multiple sclerosis, respiratory distress
5 syndrome in infants, diabetes and, of course,
6 now narcolepsy.

7 In December 1998, FDA formally gave
8 Orphan Medical the go-ahead to conduct the
9 treatment IND. The data collected during this
10 clinical trial will add to the mountain of
11 evidence we've already collected. A new drug
12 application contains volumes of scientific and
13 medical data that FDA needs to evaluate before
14 formally approving the use of a medication. We
15 expect to submit our new drug application this
16 year or early next year.

17 Representative Steelman described a
18 little earlier the difference between accepted
19 medical use and accepted commercial use. While
20 the FDA will not be allowed to describe the
21 accepted commercial use of the agent GHB until
22 after the formal approval of this drug, the
23 approval of the treatment IND does signify its
24 accepted medical use across the country.

25 During the time that we've been

1 quietly developing GHB for the treatment of
2 narcolepsy, interest in GHB's illicit use has
3 certainly grown. As the Attorney General
4 stated, information about how to make and use
5 GHB is readily available on the Internet, and
6 its chemical precursor, gamma-butyrolactone, or
7 GBL, can be obtained easily. It is easy for
8 anyone with a computer, credit card, and the
9 inclination to surf the Net, find the recipe,
10 buy the ingredients, and make a batch of
11 home-brewed GHB right in their kitchen.

12 It's important to note that no
13 medical-grade GHB has ever been diverted for
14 illicit use, and that's despite its use in
15 clinical trials in 14 states.

16 Because of the home-brewed nature of
17 GHB through the material purchased on the
18 Internet, the levels of toxicity vary greatly.
19 A capful of one batch may be equivalent or as
20 toxic as a cupful of another.

21 The newness of GHB and its easy
22 manufacture have caused tremendous problems for
23 law enforcement. We share the concern for
24 public safety that was so eloquently expressed
25 by Attorney General Fisher.

1 Over the past three years, we have
2 worked with FDA, the U.S. Drug Enforcement
3 Administration and members of Congress to get
4 GHB listed as part of the Controlled Substances
5 Act.

6 Our goal and message have been
7 extremely consistent: Severely punish those who
8 illegally possess, distribute, or manufacture
9 GHB and its analogs. Severely punish sexual
10 predators who would use it to commit assault.
11 But do so without denying narcolepsy patients
12 access to the only medication that has been
13 proven to be effective for cataplexy.

14 With that in mind, we wish to urge
15 Representative Benninghoff, Dermody and the
16 committee to improve House Bill 183 or 111 as
17 originally written so that while GHB is listed
18 as a Schedule IV substance, governing its legal
19 and medically appropriate use, Schedule I
20 penalties can be leveled against anyone who
21 illicitly manufactures, distributes or possesses
22 GHB and its precursors.

23 Specifically, we suggest that a new
24 subparagraph be added to Section 780 dash 113F,
25 paragraph 3 of the Controlled Substance, Drug,

1 Device and Cosmetic Act. It would say that
2 anyone who violates the act with respect to,
3 quote, gamma-hydroxybutyric acid, any salt,
4 compound, derivative or preparation of
5 gamma-hydroxybutric acid, including any isomers,
6 esters and ethers and salts of isomers, esters
7 and ethers of gamma-hydroxybutric acid whenever
8 the existence of such isomers, esters and ethers
9 and salt are possible within the specific
10 chemical designation, would be guilty of a
11 felony and upon conviction thereof to be
12 sentenced to imprisonment not exceeding 15
13 years, or to pay a fine not exceeding \$250,000
14 or both, unquote.

15 A copy of our proposed language is
16 in the information packet, the blue information
17 packet which we have provided to all of the
18 members.

19 Mr. Chairman, and members of the
20 committee, we maintain that such Schedule I
21 penalties are at the heart of the Attorney
22 General's argument. Knowing that a medication
23 is on Schedule I is no deterrent. Knowing
24 you're going to get 15 years and a
25 quarter-million-dollar fine is.

1 Attorney General Fisher described
2 earlier horrific instances of abuse throughout
3 the United States. He specifically spoke to
4 instances in both Michigan and Georgia where
5 young women had been raped with GBL. It's
6 important to note that in both Michigan and
7 Georgia GHB is a Schedule I. Schedule I
8 penalties did not stop this in most states at
9 all.

10 Now, some may argue that our
11 proposal gets too creative with the Pennsylvania
12 statutes, but I would offer that the state Date
13 Rape Act championed by the Attorney General was
14 just as creative. It effectively adds ten years
15 to the rape conviction of anyone who uses any
16 substance to facilitate a sexual assault, any
17 substance, aspirin, alcohol or GHB, controlled
18 or uncontrolled.

19 Mr. Chairman, and members of the
20 committee, I'm sure you noticed that I did not
21 simply identify GHB in our proposed amendment.
22 In fact, what I identified included GHB and more
23 importantly its chemical precursor, GBL, its
24 esters, ethers and other chemical concoctions
25 that use GBL which some bathtub chemist may

1 dream up in the future.

2 Today, GBL is legally used by
3 manufacturers of paints, like PPG Industries;
4 beer manufacturers, like Latrobe; and
5 electronics components manufacturers,
6 manufacturers with experience using regulated
7 chemicals. The key to stemming the illicit
8 manufacture of GHB is to criminalize the illegal
9 use and possession of GBL.

10 There is absolutely no reason for
11 any individual to have GBL in their possession.
12 If they have it, it's for one reason and that's
13 to make GHB or to use GBL as if it were GHB.
14 GBL is the necessary component to make GHB.
15 Absent GBL, you can't make GHB.

16 As we discussed earlier, GBL is not
17 difficult to find. You can obtain nearly 100
18 percent GBL off the Internet for as little as
19 \$35 charged to your credit card, or if you
20 looking to run a major GBL trafficking
21 operation, you can obtain GBL in bulk with
22 little, if any, screening.

23 As a test last summer, our company
24 contacted four reputable chemical suppliers with
25 only a false company name, a false phone number

1 and a credit card. Two of these suppliers were
2 more than willing to set up an account for us to
3 obtain GBL in huge quantities.

4 Last year, Florida authorities tell
5 us, illicit manufacturers of GHB learned they
6 didn't have to bother even going to the trouble
7 of buying GHB. GBL is brewing the GHB
8 themselves. They discovered that GBL naturally
9 converts in the body to GHB. So, now they just
10 sell diluted GBL by capfuls. They call it scoop
11 in Florida. It is highly toxic. This bottle
12 that I've been holding up once diluted could
13 make 50 doses of scoop for rave party-goers.
14 And at ten to \$20 a dose, that makes a lot of
15 money for the dealer.

16 A sexual predator could use GBL in
17 this bottle to help him commit at least 15
18 sexual assaults.

19 In Florida, GHB abuse is dropping as
20 GBL abuse is increasing. They tell us also that
21 the demographics of the abusers have changed.
22 GHB abuse was occurring among 20 to 30 year
23 olds; GBL abuse is occurring among 15 to 20 year
24 olds. Fifteen year olds. This is an outrage.

25 Making GHB a Schedule I agent will

1 do nothing to prevent this as we learned from
2 Michigan and from Georgia.

3 So, Florida responded by modifying
4 their state statutes using very scientific
5 language to include GBL, its isomers, its esters
6 and any concoction that a scientist might come
7 up with to get GHB. It's the same language that
8 we have proposed to the committee, Mr. Chairman.

9 The Attorney General is correct that
10 Schedule I drugs can be clinically studied in
11 Pennsylvania, but that's only if you can find
12 doctors and manufacturers who are willing to do
13 so. If GHB were listed in Pennsylvania as a
14 Schedule I agent, the Pennsylvania company that
15 manufactures pharmaceutical-grade GHB for our
16 clinical trials will cease production. That
17 would end the research. We'd have to tell FDA
18 to find someone else to develop GHB all over
19 again. Narcolepsy patients would have to wait
20 at least five more years for GHB to be available
21 to them.

22 If GHB were listed as a Schedule II
23 substance, a 20,000 square foot vault, the size
24 of a small airplane hangar made of eight-inch
25 concrete would be required to store

1 pharmaceutical-grade GHB. The cost of
2 construction would be ten to \$20 million which
3 would more than double the cost of the clinical
4 trials, and those additional costs, if we could
5 even afford them, would be passed on to the
6 health care system.

7 And if by some miracle a benefactor
8 were found to build a vault for us, we would
9 face the real problem then and that's diversion.
10 Not at the vault, but in the distribution
11 channel.

12 Schedule II medications, as the
13 Attorney General stated, cannot be sent directly
14 to patients from single, well-controlled
15 mail-order pharmacies. We would have to
16 distribute pharmaceutical-grade GHB in the same
17 way that highly-prescribed medications are
18 distributed to thousands and thousands of
19 patients; the way a drug like Viagra gets to
20 over three million patients; through every
21 national drug wholesaler, regional distributor,
22 chain-store distributor and retail pharmacy. We
23 would have to produce and ship a whole lot more
24 GHB than is necessary to treat a few patients in
25 Pennsylvania that suffer from narcolepsy.

1 At every point in the distribution,
2 and there are hundreds of them, every point is
3 an opportunity for diversion. There would be no
4 way of knowing if a patient is over filling
5 prescriptions until after the DEA filings
6 identify it; often months after.

7 On January 6th of this year, the medical
8 professionals who make up the Pennsylvania Drug,
9 Device and Cosmetic Board, after hearing the
10 medical and scientific information voted five to
11 one that GHB should not be a Schedule I or II,
12 but that this agent scientifically fits into a
13 Schedule IV. That same board recommended
14 control of the precursor chemical GBL to get at
15 the real issues of the abuse of this agent.

16 If GHB is listed as a Schedule IV
17 agent, it would permit Orphan Medical to ship
18 directly to patients, track the dose that each
19 individual patient around the country is on. We
20 would track their refills. We would manufacture
21 the right amount of GHB, minimizing
22 opportunities for diversion. From our
23 distributor in Ohio to Federal Express directly
24 to the patient door; not on trucks going to
25 many, many wholesalers and distributors

1 throughout the country.

2 We could identify any diversion and
3 prevent it before a shipment is made, and we'd
4 call the doctor about it so the patient would
5 not be allowed to get anymore. So who wins; who
6 losses?

7 Mr. Chairman, members of the
8 committee, we think we have proposed amendments
9 to both Representative Benninghoff's original
10 bill and Representative Dermody's bill that
11 enable everybody to win; parents, children,
12 women, rape crisis advocates, narcolepsy
13 patients and their families, police,
14 prosecutors, and members of the legislation and
15 the Attorney General.

16 We hope that you will agree with the
17 Pennsylvania Drug, Device and Cosmetic Board
18 that medical-grade GHB should be a Schedule IV
19 agent, and that the criminals that use this and
20 other chemicals to perpetrate crime should be
21 severely punished.

22 Please approve the original intent
23 of House Bill 183 and 111 with the suggested
24 amendments allowing the continued treatment of
25 Pennsylvanians with narcolepsy.

1 I'd like to thank you, Mr. Chairman,
2 Representative Benninghoff, Representative
3 Dermody, and the committee members for the
4 opportunity to present this testimony.

5 Now, I would like to introduce you
6 to Matt Speakman, his father Bill Speakman and
7 his mother Jane Carey of McMurray, Pennsylvania.
8 After Bill, Matt and Jane conclude their
9 comments, I will be happy to answer any
10 questions that you may have.

11 CHAIRPERSON GANNON: Mr. Speakman.

12 MR. SPEAKMAN: Thank you. I have
13 narcolepsy. I'm one of the 65 percent of
14 narcolepsy patients who have the excessive
15 daytime sleepiness and cataplexy which she
16 described as being a total lack -- loss of
17 muscle tone and muscle control, which usually
18 results in a collapse.

19 I had learned about GHB as being a
20 medical treatment for narcolepsy after my mom
21 was desperate to the point where -- I was on
22 Ritalin to treat the sleepiness and one of those
23 tricyclic drugs that's basically a mood elevator
24 to treat cataplexy. It doesn't work, but that's
25 what they give you because it's the best thing

1 they have.

2 I was a junior in high school when I
3 was afflicted with narcolepsy. It just kind of
4 happens sometimes. The medical causes aren't
5 quite determined yet. My grades suffered, of
6 course. This cataplexy is what really eats you
7 up. You can maybe can get by with daytime
8 sleepiness by scheduling that throughout the
9 day, like I was allowed to go down to the
10 nurse's office after lunch and take like a 15 or
11 20-minute nap, which would help me stay awake
12 through my classes which was a difficult thing.

13 But the cataplexy is not predictable
14 and it happened -- Severe cataplexy attacks
15 would happen to me as many as two and three
16 times a day. It's difficult to try to explain
17 that to your teachers and your friends when your
18 face just hits the desk. They don't know what
19 to do. They don't know if you're in some kind
20 of serious medical trouble, but like she said,
21 I'm fully awake, fully aware. I can hear, see
22 and listen. I just can't move.

23 After starting on GHB, it was
24 immediately a significant difference in both my
25 daytime sleepiness and my cataplexy attacks. I

1 have been on it over a year now. I have had
2 only two severe cataplexy attacks in more than a
3 year's time.

4 Last summer I drove to Maine myself.
5 I got a job as a camp counselor teaching kids
6 how to draw and paint, full time, day and night
7 in the cabin with them, everything. I had no
8 problems whatsoever. I'm happy to say that's a
9 good reference for me. Without GHB that would
10 not have been possible. I honestly wouldn't
11 have attempted it on Ritalin or Vivactil because
12 it doesn't treat the cataplexy.

13 I can cite embarrassing times as
14 well as scary times. I was a competitive
15 swimmer in high school, and those sudden bursts
16 of emotion and laughter is what triggers
17 cataplexy attacks. When you're in a relay and
18 the guy hits the wall and you shoot off the
19 block and have a cataplexy attack in midair and
20 they have to pull you out of the water, it's
21 embarrassing, but it's also scary being in the
22 water. That can happen, let's be realistic,
23 driving and during a lot of other things that
24 causes emotional responses.

25 To have only two cataplexy attacks

1 over a year's time, instead of two or three a
2 day, to me that proves the drug is doing a whole
3 lot more than any of the others. That's what I
4 have to say.

5 CHAIRPERSON GANNON: Thank you, Mr.
6 Speakman. Any questions?

7 REPRESENTATIVE BLAUM: Mr. Chairman,
8 I'd like to congratulate the gentleman on his
9 courage in coming before the committee and
10 advocating his position. I think it takes a lot
11 of guts.

12 CHAIRPERSON GANNON: I can say
13 personally I represented a client who had
14 narcolepsy. It was very revealing how disabling
15 the disease, the illness can be. I had contact
16 with it. I do appreciate -- Representative
17 Steelman.

18 REPRESENTATIVE STEELMAN: I was just
19 wondering if you could talk a little bit more.
20 We understand in Mr. Speakman's case the drugs
21 that apparently are described in the Merck
22 Manual that Representative Benninghoff referred
23 to weren't effective. Could you give us some
24 idea of how often those drugs are not effective?

25 Nobody on this panel is a

1 pharmacologist. We're being asked at this point
2 to judge between one point of view about the
3 pharmacology of narcolepsy and a different point
4 of view. When the Merck Manual says fairly
5 authoritatively, Imipramine is the drug of
6 choice to treat cataplexy, why or why not?

7 MS. ENGEL: There are two main
8 symptoms of narcolepsy. One is excessive
9 daytime sleepiness and the other is cataplexy.
10 For many years people have attempted to segment
11 the disease in a way where excessive daytime
12 sleepiness is treated with stimulants to keep
13 you awake, if you will, and the cataplexy
14 treated with mood elevators such as Imipramine
15 to not so much control the cataplexy but control
16 the emotions as Matt described with flat effect.
17 With no real highs or lows the incidents of
18 cataplexy will not be experienced by a patient
19 who typically would experience that.

20 While the Merck Manual states that
21 these drugs are used for cataplexy, Matt spoke
22 to them himself. They are often used because
23 there is nothing else available right now.

24 MR. SPEAKMAN: It's the drug of
25 choice because there's nothing else. They

1 think -- They know what certain drugs effect
2 different parts of the brain and to try to level
3 that out so that there aren't -- It's an attempt
4 to make some kind of predictability to cataplexy
5 attacks instead of trying to stop them.

6 MS. ENGEL: Remember FDA came to
7 Orphan Medical in 1994 and asked us to develop
8 this drug specifically because there were no
9 effective treatments for the cataplexy
10 associated with narcolepsy. Attorney General
11 Fisher described the drug Provigil or Rohypnol
12 that was recently approved by FDA.

13 I would urge you to look to the PDR,
14 the Physician's Desk Reference, which describes
15 not only where drugs are commonly used but where
16 drugs have scientific evidence and FDA sanction
17 in their practical use. FDA has approved
18 Provigil for the excessive daytime sleepiness
19 associated with narcolepsy. They recognized
20 that Provigil has no impact in cataplexy.

21 Imipramine has no FDA approval for
22 cataplexy. The other agents that you see in the
23 Merck Manual have no FDA approval for cataplexy
24 because frankly those companies have not been
25 able to prove in scientifically rigorous and

1 statistically significant manner that those
2 drugs are any more effective than placebo in
3 treating the cataplexy associated with
4 narcolepsy.

5 With the data presented to the FDA
6 in December of 1998 on the effect of GHB with
7 cataplexy was the first time scientific rigorous
8 statistically significant information had been
9 provided as to a drug that was actually
10 effective in treating the cataplexy associated
11 with narcolepsy. It is for that reason FDA
12 asked Orphan Medical to conduct a treatment on
13 GHB.

14 Now, we can talk all day long about
15 what is accepted medical use as Schedule I
16 describes, and we believe, as does FDA and DEA,
17 that the sanctioning of a treatment IND for GHB
18 does, in fact, constitute accepted medical use.
19 We're not talking about accepted commercial use.

20 The FDA and Orphan Medical have
21 squares to fill, if you will, before the FDA's
22 approval for this drug. There are manufacturing
23 issues that have to be finalized, and stability
24 issues on how stable or what is the shelf life
25 of this drug before FDA will approve it for

1 commercial use or commercial acceptability.

2 But, in fact, the appearance of Matt
3 and others here who are today using GHB as the
4 only agent that has controlled their cataplexy,
5 and the fact that FDA has approved its use in
6 treatment IND has requested across this country
7 the patients be -- the population of patients be
8 expanded to be allowed to utilize this agent for
9 their cataplexy does speak and speaks very
10 strongly to its accepted medical use.

11 REPRESENTATIVE STEELMAN: I noticed
12 that several of the states in which you give
13 your trials now have GHB listed as a Schedule I
14 drug. What's that done to your ability to
15 continue to collect evidence.

16 MS. ENGEL: Well, in some states we
17 have been able to work with the medical boards
18 to get special dispensation to ship product into
19 the states for patients. In other states it has
20 denied patients' access. One example is
21 Alabama, where two clinical sites recently have
22 not been able to continue to provide medication
23 for their patients. The patients are now
24 traveling out of state to obtain medicine for
25 their disease.

1 The issue here in Pennsylvania
2 centers so much around the issue of the
3 manufacture. Our manufacturing site is based in
4 Conshohocken and with the listing of GHB as a
5 Schedule I, they will not be able to continue to
6 manufacture this agent for clinical trials
7 anywhere in this country.

8 So, while the law allows for study
9 under a Schedule I as Attorney General Fisher
10 described, the practical implications of a
11 Schedule I would, in essence, shut down the
12 development of this agent for the few people
13 here both in Pennsylvania and across the country
14 who suffer from cataplexy.

15 CHAIRPERSON GANNON: Representative
16 Benninghoff.

17 REPRESENTATIVE BENNINGHOFF: I
18 apologize, but I didn't hear where you said it
19 would be manufactured. There was a cough and I
20 couldn't hear over it. My question would be --
21 Go ahead and tell me where it's manufactured.

22 MS. ENGEL: It's Conshohocken.

23 REPRESENTATIVE BENNINGHOFF: You're
24 saying if we were to make this Schedule I here
25 in Pennsylvania, that would shut down the

1 manufacturing and not allow you to distribute
2 it. What happened in the other states because
3 of them scheduling (drops voice), because it
4 being only manufactured?

5 MS. ENGEL: As I mentioned, in some
6 states we have been allowed special dispensation
7 to ship products to individual patients, because
8 like Matt nothing else has worked for him. In
9 other states, such as Alabama, we cannot ship at
10 all. We have patients who are, frankly,
11 illegally bringing the drug into the state in
12 order to continue to be treated.

13 REPRESENTATIVE BENNINGHOFF: But am
14 I understanding, you said that by us in
15 Pennsylvania making this a Schedule I, we're
16 going to shut it down for the whole United
17 States.

18 MS. ENGEL: Because we manufacture
19 here in Pennsylvania and the code of federal
20 regulations requires the drug manufactured as a
21 Schedule I or Schedule II agent be manufactured
22 and stored in vaults. Perhaps you missed this
23 part of the testimony.

24 REPRESENTATIVE BENNINGHOFF:
25 Actually, I heard the part of the cost of the

1 vault.

2 MS. ENGEL: This drug is a little
3 bit different than others; in that, typically,
4 if you take a medication, an antibiotic or
5 something like that, you take it in milligram
6 quantities. You take a little tiny pill. And
7 the amount that it would take to treat you for a
8 week, a month or a day is not a large bulk.
9 With this agent the amount that is effective for
10 patients with cataplexy ranges anywhere from
11 three to nine grams per day. That's a large
12 bulk.

13 So the amount of drug that would
14 need to be manufactured for only six months to
15 treat those few patients in the country with
16 cataplexy would require a 20,000 square foot
17 vault. This vault, if you can picture a bank
18 vault in your mind with eight-inch thick
19 concrete walls, television cameras, motion
20 detectors, all the controls that would be
21 necessary under a Schedule I or a Schedule II
22 regulation under the code of federal regulations
23 would cost 500 to \$1,000 per square foot.

24 As I mentioned, ten to \$20 million
25 more than doubles the cost of development of

1 this drug and practically shuts this down. Not
2 only can any company not afford this, because
3 there are very few patients across the country
4 who suffer from the cataplexy associated with
5 narcolepsy, but eventually, when the drug were
6 able, for example, to get approved by FDA, the
7 patients couldn't afford it anyway.

8 REPRESENTATIVE BENNINGHOFF: My
9 final question, just a clarification of numbers,
10 if I may, Mr. Chairman. In these sentences you
11 are saying a few patients, but in this written
12 testimony you say cataplexy affects 65 percent
13 of the 180,000 Americans. What is the actual
14 number we are talking about, cataplexy patients
15 versus narcolepsy?

16 MS. ENGEL: There are estimated to
17 be 180,000 narcoleptic patients in the United
18 States. The reason that I say estimated, it is
19 a very difficult disease to diagnose. Many
20 patients who have narcolepsy go through many
21 years of diagnoses and run through the medical
22 system costing us all a lot of money.

23 Basically, 65 percent of those
24 patients, we believe, have cataplexy, and that's
25 based on population studies done out of Stanford

1 University Sleep Disorder Center in Stanford,
2 California.

3 Now, that puts the number of
4 cataplexy patients somewhere around the hundred
5 thousand range. Now, if you compare that to
6 patients who have heart disease, cancer, AIDS,
7 any of the diseases that we hear about so often,
8 you can see that that is a relatively few number
9 of patients. We've estimated that the patient
10 population in the State of Pennsylvania based on
11 your population estimates and the estimates of
12 the incidents and prevalence of cataplexy in the
13 population would be 3,900 patients here in the
14 State of Pennsylvania.

15 REPRESENTATIVE BENNINGHOFF: Again,
16 just to clarify, these are estimates on the
17 population numbers versus diagnosed cases?

18 MS. ENGEL: These are not patients
19 in hand. Remember that there haven't been
20 effective treatments for cataplexy. So today
21 there exists no patient registry, if you will,
22 through pharmacies across the country and here
23 in Pennsylvania, as well as to specific patient
24 numbers with cataplexy.

25 REPRESENTATIVE BENNINGHOFF: Thank

1 you. Thank you, Mr. Chairman.

2 CHAIRPERSON GANNON: Mr. Callen.

3 MR. CALLEN: The issue between
4 Schedule II and Schedule IV, the shipping
5 consideration, if you can ship directly to a
6 patient, can you also ship directly to a
7 pharmacy for the patient?

8 MS. ENGEL: We could do that. And
9 let me tell me why the company and the federal
10 authorities are very interested in a Schedule
11 IV. Because of the opportunity, frankly, to
12 build a patient registry.

13 I mentioned earlier that our company
14 has two other drugs that we do for rare
15 diseases. One for a disease called Congenital
16 Sucrase-Isomaltase Deficiency another
17 Homocystinuria which there is less than a
18 thousand kids in the country that have this
19 disease. Because there are so few patients in
20 those diseases, we build what's called a patient
21 registry where we know who every patient is,
22 where every patient is, and what their dose is.
23 In those drugs it's for the reason of
24 manufacturing the right amount of medicine at
25 the right time.

1 In this case we would be very much
2 in favor of building a patient registry to be
3 able to keep track of who the narcolepsy
4 patients are who utilize this agent, what each
5 dose was for each patient, and to control in a
6 proactive manner its distribution.

7 In the booklets that I have given
8 you, there's a tab called scheduling and there's
9 some schematics that show you the difference of
10 what happens to an agent that's distributed
11 through the general distribution system in this
12 country versus something through direct
13 distribution. These agents are Orphan drugs.
14 They're used for very, very few patients.

15 An important fact that the Drug,
16 Device and Cosmetic Board took under
17 consideration when they voted to make GHB a
18 Schedule IV is the fact that there are 57,000
19 retail pharmacies in United States.

20 Now, if you sell an arthritis drug
21 or a blood pressure medication or Viagra, it
22 makes an awful lot of sense to put that drug in
23 the national wholesalers, the regional
24 wholesalers, the local wholesalers and down to
25 the drug stores. That includes your CVS chains

1 and your mom and pop's pharmacy on the corner.
2 But every one of those 57,000 pharmacies and
3 every one of those distributors represents an
4 opportunity for a diversion.

5 By having a drug that is allowed to
6 be sent from our manufacturer directly to
7 someone like Matt, and I don't mean sat on
8 Matt's doorstep so when he shows up from class
9 five hours later he'll get it, but directly from
10 our manufacturer to Matt's hands, he signs for
11 it and we know exactly what Matt's dose is. And
12 we know if Matt hasn't taken his medication
13 because he's not reordering as often as he
14 should, or we know if Matt is giving some to his
15 friends because he's over-ordered, we can
16 prevent the diversion.

17 We don't need this stuff traveling
18 on trucks around the State of Pennsylvania or
19 any other state. We don't need this stuff
20 sitting on the loading docks. We don't need to
21 be manufacturing tons and tons of this stuff
22 unnecessarily to fill a distribution pipeline.
23 It's silly.

24 The ability to put this on Schedule
25 IV allows us to send it right to Matt. It

1 allows us the ability to keep track of these few
2 patients just like we already keep track of the
3 hundred patients who are suffers of
4 Homocystinuria and take our drug Cystadane, and
5 just like we already keep track of the thousand
6 patients who suffer from Congenital Sucrase-
7 Isomaltase Deficiency and already have taken
8 our drug Sucraid. This is something that we do.
9 It's our business.

10 We believe as does the federal
11 authorities that this agent appropriately looked
12 at in a medical and scientific way and be
13 allowed to be controlled in a way that does not
14 harm patients with narcolepsy.

15 MR. CALLEN: Just one related
16 question. The containment vault that be
17 required on Schedule II, other manufacturers of
18 Schedule I and Schedule II drugs must meet that
19 same requirement in Pennsylvania? How do
20 they --

21 MS. ENGEL: Yes, they do. Other
22 manufacturers -- There is really -- When you say
23 manufacturers, there is no accepted medical use
24 for a Schedule I, if you will, so that we set
25 aside. But, there are manufacturers who

1 manufacture Schedule II agents, and some of
2 those agents, in fact, are utilized in sleep
3 disorder centers for narcolepsy. The difference
4 is, they're also used for things like attention
5 deficit disorder, attention deficit
6 hyperactivity disorder. Those agents like
7 Ritalin are used in many, many diseases.

8 So it makes sense to put those
9 agents in 57,000 retail outlets across this
10 country. They're used enough. They manufacture
11 enough. Those uses, those FDA-approved
12 sanctions and scientifically-studied uses of those
13 agents warrant the right amount be manufactured
14 to put in the overall distribution channel.

15 Today in this country, GHB is being
16 supported by the FDA under FDA-sanctioned
17 clinical trials. This is not, as was described
18 earlier, a company who has been looking at this
19 drug for many years. This is the FDA coming and
20 asking us to develop a drug with scientifically
21 rigorous studies with statistically significant
22 valid medical results and has proven to be the
23 only effective agent for these patients with
24 cataplexy.

25 So to put this as a Schedule IV and

1 adopt the amendments to Representative
2 Benninghoff and Representative Dermody's bill
3 that address the real issue, the GBL, is
4 something that we believe leaves a win for
5 everyone, including the Attorney General.

6 CHAIRPERSON GANNON: Representative
7 Dermody.

8 REPRESENTATIVE DERMODY: Thank you,
9 Mr. Chairman. Just one question. I was just
10 wondering about side effects.

11 MS. ENGEL: The most common side
12 effects in our clinical trials -- Why don't I
13 let Matt speak to that first, and then I'll give
14 you the information for the question.

15 MR. SPEAKMAN: I don't have any side
16 effects. The drug is taken before I go to bed
17 at night. I take two doses which last for about
18 four hours apiece. That's not rigid to the
19 point where I have to take both doses and get
20 eight hours of rest. There have been times
21 where I take -- I'm a college student right now,
22 and I'm doing all right too.

23 What I'm saying is, like it's a
24 whole lot different from my junior and senior
25 year in high school. I can take a four-hour

1 dose and go to class, and if I have five or six
2 hours between the next class with nothing I need
3 to do, I can go back to bed and take my second
4 four-hour dose. It's almost like a cumulative
5 amount of sleep that I get to eliminate
6 problems. I don't have any side effects at all.

7 REPRESENTATIVE DERMODY: How long
8 have you been taking it?

9 MR. SPEAKMAN: A little over a year.

10 MS. ENGEL: In our clinical trials
11 the most common adverse experiences included in
12 the trials included headache and nausea. In a
13 FDA-sponsored clinical trial there is a sanction
14 that requires that every adverse effect be
15 documented. That includes, if you are on the
16 drug being studied, if you hiccup we write it
17 down and it gets recorded. So, it's very well
18 documented in hundreds of patients what the
19 adverse experience profile is. The horrific
20 experiences that Attorney General Fisher shared
21 with you earlier happen out there every day.

22 I'll show you something that we did
23 in our labs. This was a frightening experience.
24 We, as I mentioned earlier, purchased a number
25 of GHB kits off the Internet which frightenly

1 enough was found in an Internet web site called
2 GHB dot kit dot com. And for about \$75 got a
3 little paper box, little corrugated box with
4 gamma-butyrolactone, GBL, or scoop in it with
5 some other chemicals live, frankly, as the
6 solvent and some instructions as to how to make
7 this stuff up in your kitchen.

8 So, we sent one of our chemists home
9 to his kitchen. In the packet that you'll find,
10 you'll actually find some pictures that we took.
11 The instructions for making the GHB were pretty
12 good, but what we found is that, just simply
13 using a pan that contained aluminum in it didn't
14 give you GHB at all. It gave you -- And I'll
15 give this to the committee to pass around. It's
16 a pretty horrific thing. This is what we came
17 up with. It was a silver gray goop that
18 solidified in the container about ten minutes
19 after its manufacture.

20 Now, if you were someone who was
21 looking to rape someone with this agent or buy a
22 bottle of this and make a thousand dollars or so
23 selling it out of the cap at rave parties, you
24 probably wouldn't care so much if you followed
25 the right recipe. You probably wouldn't care if

1 you cooked it too long or too short; or if you
2 added too much lime. What we don't know at the
3 end of the day is what is in that. We don't
4 have any idea.

5 Medical-grade GHB is manufactured by
6 FDA guidelines. We use good manufacturing
7 practices or GMPs. And manufacturing sites like
8 the site in Conshohocken which we utilized to
9 manufacture this are inspected on an annual
10 basis by FDA and even more often than that by
11 the DEA. If I we make GHB a Schedule I or a
12 Schedule II, people like Matt are going to be
13 forced to buy stuff off the Internet. They are
14 going to go to Canada. They're going to go
15 wherever they need to get this stuff because it
16 helps them live a normal life.

17 REPRESENTATIVE DERMODY: How
18 expensive is this?

19 MS. ENGEL: GHB?

20 REPRESENTATIVE DERMODY: Yeah.

21 MS. ENGEL: We don't sell it today
22 because it's being studied in a clinical trial.
23 It is likely to be for a patient who suffers
24 severe cataplexy who takes a whole dose of it
25 every day for the rest of their life, would

1 probably be \$3,000 per year range.

2 We, also as a company, with all of
3 our agents, believe that these are Orphan
4 products. We cannot have people who need these
5 drugs not get them. So we work very closely
6 with patients' insurance companies to make sure
7 that they get coverage and if they don't, we
8 work with the national organization of rare
9 diseases or NOR and we give money to NOR to help
10 provide a product free of charge for people who
11 truly can't afford it.

12 REPRESENTATIVE DERMODY: Thank you.
13 Thank you, Mr. Chairman.

14 CHAIRPERSON GANNON: Representative
15 Browne.

16 REPRESENTATIVE BROWNE: Just real
17 quick, Mr. Chairman. Just a follow-up on
18 Representative Dermody's comment. Under that
19 price schedule of \$3,000 for the population this
20 would serve of 180,000 patients, would that make
21 the drug, without expanding into other uses,
22 would it make it commercially viable?

23 MS. ENGEL: It is commercially
24 viable because of the company that we are. This
25 drug rattled around in the pharmaceutical

1 industry for many years. A big company, a
2 Pfizer, a Merck, a Bristol-Myers script could
3 never afford to develop this agent. They have
4 huge overheads. In those companies it's
5 typically \$20 million at a minimum to get an
6 agent to market.

7 We are a small Minneapolis-based
8 company. We have 35 employees, and we do our
9 trials along with FDA. The office of Orphan
10 Products assists us in finding clinical trial
11 sites that will work with us and not charge us a
12 lot of money, for example, for the doctor's
13 time.

14 In many clinical trials when you do
15 the trial the patient gets some money for doing
16 that; not the case typically with these Orphan
17 drugs. We're able to develop this agent, I
18 think by the end of the day it will be for well
19 under \$10 million. Yes, for a company like us,
20 the development of GHB is financially feasible.

21 I'm sorry to say my shareholders
22 probably are not very happy that we are today
23 not a profitable company. This won't change
24 that significantly. This is not a situation
25 where we're going to make \$20 billion off this

1 drug. This is not Viagra. This is not a blood
2 pressure medication. This is not an arthritis
3 drug.

4 This is a company that's been formed
5 by people from the mainstream pharmaceutical
6 industry who want to go to work every day and
7 make a difference in somebody's life. That's
8 what we're all about.

9 REPRESENTATIVE BROWNE: Thank you.

10 CHAIRPERSON GANNON: Representative
11 Benninghoff.

12 REPRESENTATIVE BENNINGHOFF: I have
13 one quick question. Two actually. One's out of
14 curiosity. You said you're based out of
15 Minnesota.

16 MS. ENGEL: That's right.

17 REPRESENTATIVE BENNINGHOFF: Why did
18 they choose Pennsylvania for the manufacturing
19 plant?

20 MS. ENGEL: There are few
21 manufacturers who are able -- One of the things
22 about this agent, GHB and GBL, it's something
23 called hydroscopic. And what that means is, it
24 takes on water very easily. So the ability of
25 manufacturers to do this right is very small.

1 There are only a few pharmaceutical-grade
2 manufacturers in the country who can even
3 manufacture very hydrosopic products.

4 Our manufacturer here in
5 Conshohocken is one of those few. It's very
6 important that this be done right. I think what
7 I showed you here is evident that if it's done
8 wrong, there's problems. Frankly, we don't
9 know, we've never taken this, made it wrong and
10 put it into human subjects.

11 When we hear about the incidents in
12 the emergency rooms, you know, people coming in
13 in comas; young women coming in confused states;
14 all this kind of thing, we frankly don't know if
15 that's the result of GHB with alcohol or is that
16 the result of incorrectly made GHB; if it was
17 made in somebody's stove or in somebody's
18 bathtub in a way that cooked it too long or too
19 short, or allowed it to be exposed to the open
20 air, took on moisture or something like that.
21 So, the situation with this stuff on the
22 Internet must be shut down.

23 You see the cases in Michigan. You
24 see the cases in Georgia. Those people thought
25 they were doing the right thing by making this a

1 Schedule I. I would argue that the young woman
2 who was killed with this in Michigan, her family
3 would probably strongly disagree.

4 REPRESENTATIVE BENNINGHOFF: Thank
5 you.

6 CHAIRPERSON GANNON: In your
7 testimony you indicated that both Michigan and
8 Georgia regulate GHB; it's a Schedule I.

9 MS. ENGEL: That's right.

10 CHAIRPERSON GANNON: They've had
11 instances where the use of GHB, at least what we
12 have been told, led to some bad results.

13 You also told us that, apparently,
14 this ingredient GBL is really what is the key
15 ingredient, and some instances GBL by itself is
16 being used.

17 MS. ENGEL: That's correct.

18 CHAIRPERSON GANNON: Are there any
19 states that regulate or put GBL as a Schedule I?
20 Well, let me be more specific. Do Michigan and
21 Georgia regulate GBL?

22 MS. ENGEL: No, they are not, but
23 there is federal legislation that we are party
24 to and working on that will regulate GBL. As
25 was mentioned in Attorney General Fisher's

1 testimony, GBL is a substance, a very commonly
2 used commercial substance. It's used in the
3 manufacture of plastics, beer, paints, all sorts
4 of things. And if, in fact, you were to make
5 GBL a Schedule I, you may, in fact, have a lot
6 of pressure or defensiveness, if you will, from
7 different industrial sectors.

8 What we're recommending is that not
9 only -- We've talked in the past and also have
10 recommended some federal legislation that GBL be
11 listed. What that means is that, paint
12 manufacturers, beer manufacturers, reputable
13 chemical manufacturers would need to know how
14 much they produce every year and know exactly
15 who they're selling it to and that, in fact, the
16 people they're selling it to are using it for
17 legitimate purposes.

18 So, someone like PPG could still get
19 the GBL that they need to manufacture the paint
20 or someone like Latrobe could still get the GBL
21 that they need to manufacture their beer. But
22 that, these people would also need to be able to
23 measure the amount that they buy, the amount
24 that they use, and make some kind of an
25 accounting for the difference. Whatever is left

1 over today is unscheduled. We don't know where
2 that's going.

3 GHB is being used today. Medical-
4 grade GHB is being used in less than 300
5 patients around this country. No medical GHB
6 has ever been diverted for illicit purposes.
7 They are getting this stuff from somewhere. The
8 Internet maybe. The people who sell this on the
9 Internet and repackage in these little bottles
10 get it from somewhere. If it's listed, it will
11 prevent that from happening.

12 It was horrifying to me -- Myself
13 and an assistant of mine from our company got on
14 the telephone and called four reputable chemical
15 manufacturers. We made up the name of a
16 company; we made up a phone number. And when
17 asked what we were going to use this for, I was
18 purposely very flipped and said, oh, we're going
19 to use it for some research. I had two
20 reputable chemical manufacturers prepared to
21 send me 50 kilos of this stuff to an address
22 that was given just from nowhere. That's really
23 concerning.

24 Now, if we make this -- As I
25 mentioned, the federal legislation is looking at

1 not only listing GBL but also putting in these
2 provisions that deal with the very harsh
3 penalties for the manufacture, the possession,
4 and the distribution -- or the distribution I
5 should say of gamma-hydroxybutyric acid, its
6 esters, its ethers, its isomers, its salts.
7 Basically, this is the language that Florida
8 just has adopted.

9 Because, frankly, as we sit here
10 there will be some bright bathtub scientist out
11 there who figures out some other way to get this
12 covered or to get this around the language so we
13 have to make the language extremely broad.
14 That's why that, unfortunately, somewhat
15 cumbersome but very all in cumbersome language
16 has been recommended.

17 So that all this stuff, no matter
18 what form they'll figure to put this in, if they
19 have it, if they sell it, if they distribute it,
20 they're in trouble and they're in a lot of
21 trouble. That's what we are trying to get
22 accomplished both here in Pennsylvania and
23 nationally.

24 CHAIRPERSON GANNON: If someone
25 ingested just a capful of GBL which is this

1 stuff here, you've told us this converts to GHB
2 in the body. Now, if I took some of this, a
3 capful of this and then later on had a blood
4 test, would that show up as GBL or as GHB?

5 MS. ENGEL: Yes and no. If you had
6 that blood test within four to six hours of
7 ingesting that, it would show up as GHB. If
8 your blood test was after that, it would not
9 likely show up at all because it has a short
10 half life.

11 Right now Orphan Medical is working
12 with law enforcement to attempt to obtain grant
13 funding to put together and to develop forensic
14 tests. Part of the issue here, when law
15 enforcement gets ahold of this and maybe they
16 put it in Visine bottle or maybe they put it in
17 a little, you know, who knows what kind of
18 bottle somebody puts it in, it's a pretty clear,
19 harmless liquid. It does have a very salty test
20 which is accurate based on -- which is a bit
21 conflicting with some of the testimonies you
22 heard earlier, but if you were to put this in
23 somebody's margarita, you really wouldn't know
24 what it was.

25 Law enforcement can't put any kind

1 of test to this today and really know what it is
2 without sending it off to a chemical forensic
3 lab and doing a lot of very fancy testing,
4 something called HPLC testing, which I think,
5 Representative, you talked about that you are
6 familiar with, so we use an HPLC acid, PCL stat
7 (phonetic; drops voice).

8 What we're working with is trying to
9 get a forensic test, because frankly, as a
10 commercial company making a medicine for a
11 serious disease, we don't want this hassle
12 either. You know, we don't want someone out
13 poisoning young girls and having a legal
14 liability on our hands, nor do we want to have
15 the development of this drug shut down because
16 law enforcement is so frustrated with their
17 ability to prosecute and figure this stuff out.
18 So, we're working on that.

19 There was a discussion earlier,
20 could flavor be added, could color be added?
21 Could something be added to make it easier for
22 law enforcement to identify what that is? We're
23 also working on that. FDA has asked us not to
24 do that at this juncture.

25 REPRESENTATIVE BLAUM: How come?

1 MS. ENGEL: Because they feel that
2 it would require that the FDA clinical trials
3 for safety and effectiveness would have to start
4 over. They feel like that by adding something
5 else to the medical GHB it may change the result
6 of the GBL. Rohypnol is recently did that.

7 REPRESENTATIVE BLAUM: That may not
8 prohibit them from recommending something at the
9 end of the trials.

10 MS. ENGEL: That's exactly right.
11 So, we believe that will happen, but it's
12 unlikely to happen now. The challenge you have
13 with that, however, is, if Orphan Medical works
14 with FDA on the medical-grade GHB to put a color
15 or a flavor or even some kind of a marker in
16 that would be, for example, able to detect it in
17 the blood and the urine hours after someone were
18 slipped this or someone ingested this, that
19 doesn't do anything to GBL. It doesn't do
20 anything to the stuff that's on the Internet,
21 and that's the issue.

22 We can put controls; we can put
23 markers; we can put flavors; we can put coloring
24 in medical-grade GHB all day long. We're happy
25 to do that. We would be delighted to do that.

1 Whether or not that will make a bees worth of
2 difference like we've seen in Michigan, in
3 Georgia, and other states, we really doubt it.

4 We really urge you to look at this
5 issue very openly. It's a very emotional issue.
6 No one is here to say rape is a good thing. No
7 one is here to say that the utilization of any
8 drug, whether it be Aspirin, or alcohol, or GHB,
9 or GBL, or Rohypnol -- it's wrong. It needs to
10 be penalized, and sexual perpetrators need to be
11 able to be really knuckled down on.

12 By making GHB a Schedule I we're
13 just not going to do that. So, we hope that
14 you'll consider our amendment to Representative
15 Benninghoff and Dermody's bill as originally
16 written with an open mind and one that won't
17 hurt the treatment of Americans with narcolepsy.

18 CHAIRPERSON GANNON: Representative
19 Dermody.

20 REPRESENTATIVE DERMODY: I have just
21 one question. Thank you, Mr. Chairman. I was
22 worried about how many doses of Rolling Rock it
23 would take for that GBL? Just kidding. Thank
24 you very much.

25 MS. ENGEL: That I can't answer.

1 CHAIRPERSON GANNON: I have another
2 question. I wanted to ask, so would it be fair
3 to say that if a patient was brought into the
4 Emergency Room say in a coma, that a blood test
5 would not show GHB? It would show GHB even if
6 they had only taken this GBL. So the source of
7 whatever they took would have to be either
8 directly from what the patient tells you or from
9 witnesses, but a blood test would not be
10 conclusive if they had only taken GBL as opposed
11 to GHB?

12 MS. ENGEL: I believe that's
13 correct. I believe on your agenda later this
14 morning you'll be hearing from Doctor Ward
15 Donovan from Penn State-Geisinger, who runs the
16 Poison Control Center there. I think he's best
17 probably to answer that question, but that is my
18 understanding.

19 CHAIRPERSON GANNON: Thank you very
20 much for appearing before the committee, Ms.
21 Engel and Mr. Speakman, and sharing information
22 about this important legislation.

23 Mr. William Speakman, Matt's father,
24 has offered written testimony to the committee,
25 and we'll be making that a part of the record.

1 Thank you, Mr. Speakman.

2 Our next witness is Doctor David
3 Hawk of the Pennsylvania Medical Society and
4 Doctor Christine Sannerud with the Drug
5 Enforcement Administration. You may proceed
6 when you're ready.

7 DOCTOR SANNERUD: Mr. Chairman,
8 members of the committee, good morning. My name
9 is Doctor Christine Sannerud. I'm a drug
10 science officer for the Drug Enforcement
11 Administration. I appreciate the opportunity to
12 appear before you to testify, clarify some
13 statements and answer questions regarding GHB, a
14 drug now being discussed for proposed scheduling
15 in the Commonwealth of Pennsylvania.

16 GHB is a central nervous system
17 depressant which is abused for its ability to
18 produce euphoric states and its alleged role as
19 a growth hormone releasing agent to stimulate
20 muscle growth. Although GHB gained early favor
21 with health enthusiasts as a safe and natural
22 food supplement and was sold in health food
23 stores in the late '80's, the medical community
24 soon became aware of overdoses and related
25 problems caused by its abuse.

1 In 1990, the FDA issued an advisory
2 declaring GHB unsafe and illicit, except under
3 FDA-approved, physician-supervised study
4 protocols. And FDA has recently reissued its
5 advisory. GHB has not been approved by the FDA
6 for marketing, and it is currently under
7 investigation for treatment of narcolepsy under
8 the Orphan drug program, as you've previously
9 heard.

10 United States is currently
11 experiencing a problem with the clandestine
12 production, abuse and trafficking of GHB. GHB
13 is not approved for marketing as a medicine in
14 the United States, and that's important to
15 remember. Doctors do not prescribe it;
16 pharmacists do not sell it; and patients do not
17 use it. The abuse of GHB is in the absence of
18 medical supervision.

19 Although its importation,
20 distribution and use as a drug is not allowed by
21 the FDA, the abuse of GHB has increased. As a
22 drug of abuse, GHB is generally ingested orally
23 after being mixed in a liquid. The onset of
24 action is rapid and unconsciousness occurs in as
25 little as 15 minutes and profound coma can occur

1 in 30 to 40 minutes after oral ingestion of
2 higher doses.

3 GHB produces dose-dependent
4 drowsiness, dizziness, nausea, hallucinations,
5 decreased blood pressure, decreased heart rate,
6 hypnotic effects similar to petit mal epilepsy,
7 convulsions, respiratory depression and coma.
8 Overdose frequently requires Emergency Room
9 care, including intensive care for respiratory
10 depression and coma.

11 In recent years GHB has emerged as a
12 significant drug of abuse throughout the United
13 States and in a number of foreign countries.
14 Since 1993, more than 3,500 GHB-related cases of
15 abuse, overdose, possession, manufacturing,
16 diversion and trafficking have been documented
17 by the federal government and state and local
18 officials.

19 GHB is frequently taken with alcohol
20 or other drugs that heighten its effects, and it
21 is used at bars, night clubs, rave parties and
22 gymnasiums. The primary users are teenagers and
23 young adults who frequent these establishments.
24 The populations abusing these drugs fall into
25 three major categories: Users who take it as an

1 intoxicant or euphoriant; bodybuilders who abuse
2 GHB for its role as a sleep aid or as an
3 anabolic agent; individuals who use GHB to
4 commit sexual assault. These categories are not
5 mutually exclusive and abusers can use it for
6 more than one effect.

7 The GHB encountered by law
8 enforcement has been produced in clandestine
9 laboratories. The GHB synthesis requires no
10 special knowledge of chemistry, and requires
11 only two precursor chemicals, gamma-
12 butyrolactone, GBL, and sodium hydroxide, lye.
13 These precursor chemicals are inexpensive and
14 readily available.

15 The process is accomplished using a
16 simple one-pot stove top method. GBL currently
17 is a solvent with many industrial uses. It's an
18 unregulated chemical, and it's sold in chemical
19 supply companies. And there are, as you've
20 heard, kits available over the Internet;
21 however, GBL is a precursor chemical to
22 manufacture GHB.

23 Since 1997, the DEA is aware of at
24 least a hundred cases involving GHB illicit
25 laboratories and over 200 submissions to DEA and

1 state and local forensic laboratories. GHB has
2 been encountered in every region of the United
3 States in both small, personal use quantities,
4 and large quantities intended for distribution.
5 It is marketed as a legal high or as a
6 substitute for MDMA, or Ecstasy, and is sold in
7 solid and liquid form. Indicators suggest that
8 GHB abuse and trafficking is escalating and pose
9 a serious health and safety risk.

10 The abuse of GHB is associated with
11 significant adverse effects to the abuser and
12 health risk to the general public. In the last
13 several years there's been an increase in the
14 number of Emergency Room episodes reported to
15 the Drug Abuse Warning Network, or DAWN. From
16 1992 through June of 1997, there have been over
17 575 GHB DAWN Emergency Room mentions. There
18 were 257 of them occurring in 1996 and 164
19 within the first six months of 1997.

20 Alcohol and GHB mutually enhance
21 each other's toxic effects and many of these
22 mentions in DAWN involved the use of GHB in
23 combination with alcohol. DEA has also
24 collected 32 medical examiner reports from 12
25 different states involving the detection of GHB

1 in the biological fluids of deceased
2 individuals. GHB is repeatedly detected in
3 driving-under-the-influence cases which shows
4 the public health and safety hazards associated
5 with GHB abuse. In addition, the DEA is aware
6 of 20 cases of sexual assault involving GHB.

7 The DEA is currently pursuing
8 measures to administratively schedule GHB under
9 the federal Controlled Substances Act. DEA has
10 been documenting cases of abuse, diversion and
11 trafficking and is currently awaiting the
12 recommendations of the Department of Health and
13 Human Services, including FDA, as required under
14 federal law. Currently there are no sanctions
15 under the Federal Controlled Substances Act for
16 the abuse and trafficking of GHB.

17 DEA supports the need to make GHB a
18 controlled substance under federal law. Final
19 determination of its placement will have to
20 include the consideration of DHHS's scientific
21 and medical evaluation. Placing GHB in any
22 schedule under the CSA, including Schedule I,
23 should have no adverse impact on the
24 pharmaceutical industry, the medical profession,
25 patients or health care in the United States.

1 Such control would not adversely affect research
2 of the pharmaceutical industry to conduct
3 studies or develop the drug for marketing.

4 Control of GHB in the CSA would
5 allow the law enforcement and judicial system to
6 combat the trafficking of GHB in United States.
7 Such control would establish its high potential
8 for abuse and increase awareness of the public
9 to its health risks associated with the abuse to
10 the law enforcement community, the judicial
11 system and the general public.

12 Although it is not yet controlled at
13 the federal level, 20 states have already
14 controlled GHB, and you can see the map there.
15 Twelve states have placed it in Schedule I;
16 five states have placed it in Schedule II; and
17 three states have placed it in Schedule IV. In
18 addition, two states have criminalized the sale
19 and possession of GHB and placed it in the same
20 penalty group as LSD and marijuana.

21 Mr. Chairman, in closing, I would
22 like to thank you for providing me with the
23 opportunity to offer the DEA's position and
24 comments on the very serious problem of GHB
25 abuse and the issues of GHB control. I will be

1 happy to answer any questions you may have.

2 CHAIRPERSON GANNON: Thank you,
3 Doctor Sannerud. Doctor David Hawk, do you have
4 any testimony to offer?

5 DOCTOR HAWK: Yes, I do. My
6 testimony has been distributed prior to the
7 meeting.

8 Thank you, Mr. Chairman, and members
9 of the Judiciary Committee. My name is Doctor
10 David Hawk. I'm the Chairman of the
11 Pennsylvania Medical Society's Commission on
12 Public Health, and I am here this morning as a
13 representative for the society. The
14 Pennsylvania Medical Society appreciates this
15 opportunity to share our thoughts with the
16 Judiciary Committee on legislation concerning
17 the proper scheduling for the drug
18 gamma-hydroxybutyrate or GHB.

19 At a hearing before the Department
20 of Health's Drug, Device and Cosmetic Board on
21 January 6, 1999, the State Attorney General
22 requested that GHB be classified as a Schedule I
23 controlled substance under the Controlled
24 Substance, Drug, Device and Cosmetic Act. The
25 Attorney General's request was based on his

1 understanding that the drug is one with high
2 potential for abuse and with no currently
3 accepted medical use and lacks accepted safety
4 standards for use under medical supervision.

5 The Society believes that there are
6 potentially several medical uses for GHB
7 currently under study. One proposed use is for
8 the condition known as narcolepsy, a condition
9 that results in a recurrent uncontrollable
10 desire for sleep. Another proposed use is for
11 the treatment of depression. GHB has been
12 tested in combination with other central nervous
13 system depressants for surgical anesthesia.
14 Medical research will possibly uncover
15 additional uses for GHB.

16 On the other hand, classifying GHB
17 under Schedule IV as House Bill 111 and House
18 Bill 183 would do, gives wide and uncontrollable
19 latitude for the use of this drug by prescribing
20 physicians. GHB is known as a recreational
21 drug. It is used for a variety of unproven and
22 unsubstantiated problems such as weight
23 reduction, mood enhancement, athletic
24 performance enhancement, and increased sexual
25 libido.

1 Wide use in this fashion will also
2 make GHB readily available and, therefore,
3 readily available for abuse and misuse. Even
4 more disturbing is the growing and ready
5 availability of prescription drugs over the
6 Internet with little more control than a valid
7 credit card number. Do we really want GHB to be
8 among those drugs available over the Internet?

9 A recent Internet search of GHB
10 listings over the past five years reveals
11 approximately 150 published articles on GHB and
12 its uses. A number of potentially beneficial
13 uses are mentioned. However, the large number
14 of harmful uses and effects cannot and should
15 not be ignored.

16 Some articles discuss the
17 development of physical and psychological
18 dependence to GHB. GHB is known as the date
19 rape drug, easy lay, organic quaalude and
20 grievous bodily harm, to mention a few of its
21 street names. It has been associated with
22 poisoning, blackouts, coma and death, especially
23 when combined with alcohol. Its consequences
24 when used incorrectly or for illegal purposes
25 can be harmful and disastrous.

1 Seeing Schedule I as being too
2 strict and Schedule IV as too liberal, the
3 Pennsylvania Medical Society would recommend
4 consideration of the designation of GHB as a
5 Schedule II controlled substance.

6 The Society would also suggest
7 legislation imposing penalties on illegal GHB
8 manufacturers, distributors, sexual predators,
9 and those who would divert the drug for other
10 inappropriate purposes. It is very disturbing
11 to find Internet sites listing the ingredients,
12 the directions for the manufacturing the drug,
13 et cetera. Clearly, some restriction on
14 dissemination of such information is needed.

15 In closing, the Pennsylvania Medical
16 Society urges your consideration of classifying
17 GHB in a way that will balance the legitimate
18 need to restrict access to GHB while permitting
19 the appropriate use of the drug for medical and
20 research purposes. Thank you very much.

21 CHAIRPERSON GANNON: Thank you,
22 Doctor Hawk. Any questions? Representative
23 Browne.

24 REPRESENTATIVE BROWNE: Doctor
25 Sannerud, you probably can anticipate this

1 question based on your testimony. In one of
2 your paragraphs you mentioned something in
3 direct contradiction to previous testifiers in
4 regards to the fact that classifying this drug
5 as Schedule I substance would not affect the
6 pharmaceutical industry, medical professions,
7 patients or health care in United States; would
8 not adversely affect the research or
9 pharmaceutical industry to conduct studies or
10 develop the drug for marketing in the United
11 States. Could you comment on what the prior
12 testifier said?

13 DOCTOR SANNEERUD: I can comment
14 about what's required under federal law. What's
15 required under the Controlled Substances Act is
16 for researchers who are conducting studies such
17 as are being conducted now, investigational new
18 drug studies--those are considered research
19 protocols--the requirements for researchers
20 under Schedule I is the same as under Schedule
21 II through IV. The requirements are all the
22 same.

23 Manufacturers, obviously there are
24 heightened requirements for handling of Schedule
25 I and II drugs, but for researchers and patients

1 who are involved in these clinical trials, there
2 are no differences between the requirements in I
3 versus the other schedules.

4 REPRESENTATIVE BROWNE: What's
5 mentioned about the pharmaceutical industry,
6 that assumes that something is going to develop
7 that's going to be eventually commercially
8 viable. Does that have any effect in regards to
9 that contradiction?

10 DOCTOR SANNERUD: At this point, the
11 DEA is the agency that determines accepted
12 medical use based on input from other agencies.
13 At this point, there is no accepted medical use,
14 and there's no established evidence of safety
15 and efficacy. If at some point FDA approves the
16 drug for marketing as a medicine, then that will
17 have to obviously be changed and taken into the
18 scheduling decisions.

19 REPRESENTATIVE BROWNE: Once it's an
20 approved use, based on your opinion, it would
21 have to go off Schedule I?

22 DOCTOR SANNERUD: Right. That has
23 been done with several different drugs that have
24 been approved for marketing; were placed in
25 Schedule I during the development and then moved

1 to Schedule II later, once it was approved.

2 REPRESENTATIVE BROWNE: Thank you
3 very much. Thank you, Mr. Chairman.

4 CHAIRPERSON GANNON: Representative
5 Steelman.

6 REPRESENTATIVE STEELMAN: Thank you,
7 Mr. Chairman. I have a question for both
8 presenters that is related to the previous
9 testimony. What we heard was that, actually,
10 what's available freely over the Internet at
11 this point is gamma-butyrolactone, a precursor
12 to GHB. The suggestion was made that we ought
13 to control the availability of that precursor.

14 Neither of you mentioned that in
15 your testimony, but I would appreciate hearing
16 your thoughts on that issue.

17 DOCTOR SANNERUD: What DEA is
18 encountering now is GHB, GHB labs. They may be
19 using GBL, but they're using it to make GHB.
20 GHB is the drug that people are seeking. Once
21 GHB becomes a controlled substance and depending
22 upon where it's placed under the federal law,
23 there's several different options. If it's
24 placed in Schedule I or II, the federal
25 government could control GBL as an analog. It

1 can be also controlled as a precursor chemical,
2 or it can be listed as what's placed on the list
3 of chemicals called the listed chemicals.

4 That's similar to what people have
5 talked about here in the State of Pennsylvania,
6 where there's registration requirements, but
7 it's not considered a controlled substance. The
8 federal government has not concluded on what
9 options, what decisions should be made with GBL
10 because it's not -- GHB is not a controlled
11 substance yet, and there is a lot of industrial
12 use of GBL, so that has to be taken into account
13 on what option we eventually use.

14 REPRESENTATIVE STEELMAN: If GBL
15 were controlled as an analog or precursor, under
16 what standards would it fall? Could you
17 describe how that control would be exercised?
18 This would be by the federal government if this
19 becomes --

20 DOCTOR SANNERUD: A precursor or an
21 analog is -- An analog is used when it's
22 being -- It's similar to a controlled substance,
23 pharmacologically and chemically, and it's also
24 used for human consumption. When it's listed as
25 a precursor chemical or when the precursor

1 chemical statutes are used, the penalties --
2 It's placed in a schedule, but it's not called a
3 controlled substance. It's only called a
4 precursor chemical if it's being used in the
5 manufacture of a controlled substance.

6 REPRESENTATIVE STEELMAN: Thank you.

7 CHAIRPERSON GANNON: Representative
8 Benninghoff.

9 REPRESENTATIVE BENNINGHOFF: I
10 actually have two questions. One, I'm looking
11 over your earlier testimony where you talk about
12 1990, FDA issued an advisory declaring GHB
13 unsafe and illicit. Here we are in 1999. I
14 assume in those nine years a lot of trials,
15 clinical studies and tests have gone on.

16 Where's FDA's position? Has it
17 progressed at all? Are they pretty much the
18 same? I mean, nine years is a long time to be
19 researching something. If I was spending money
20 researching something, I'd want to know whether
21 we're making any progress or any kind of --

22 DOCTOR SANNERUD: I can't speak to
23 FDA's deliberations or FDA's involvement in the
24 product. I know that back in the summer of
25 1997, DEA sent the Department of Health and

1 Human Services, FDA and NIDA, a document where
2 we laid out all of our evidence of abuse and
3 trafficking. As required by law, they need to
4 review it, put in their evaluation. And we're
5 still waiting to hear back from them. I know
6 that there's a lot of different parts of FDA
7 working on these issues, but I don't know what
8 their status is.

9 REPRESENTATIVE BENNINGHOFF: I have
10 a question for the gentleman, and I appreciate
11 your testimony. That's the whole purpose of
12 today's hearing is to hear lots of different
13 opinions and viewpoints.

14 You're encouraging Scheduling II
15 versus Scheduling I. Any significant -- Or can
16 you list five reasons why you prefer one over
17 the other?

18 DOCTOR HAWK: I think that Schedule
19 II would be more appropriate because of its use
20 that we heard earlier this morning in
21 narcolepsy, as an example of one of the areas
22 where there's really some research that looks
23 very promising, and I mentioned several other
24 areas that are being looked into as far as this
25 particular compound goes.

1 Schedule II in my mind, as a
2 practicing physician, falls into the same
3 category as Ritalin. Treating a number of
4 children with attention deficit disorder, I know
5 how tightly Ritalin is controlled. I know that
6 I see people monthly to write their monthly
7 prescriptions. These prescriptions are not
8 taken by phone or by fax. They must be handed
9 to the pharmacist on my written note.

10 To me this would be the appropriate
11 use. We don't get around faxes and telephone
12 calls and those kinds of mechanisms where people
13 can get refills on their medication. I think
14 that that's the kind of tight control that the
15 Pennsylvania Medical Society is talking about.

16 REPRESENTATIVE BENNINGHOFF: Just to
17 make a statement. We do know that the half
18 life, if you want to call it, of the GHB is very
19 short and very difficult to trace in the
20 bloodstream.

21 So, I'm looking at it from a
22 criminology standpoint, investigator's
23 standpoint, that it really frightens me to think
24 we can have people subdued and maybe even have a
25 death occur and no medical reason for that

1 versus Ritalin we may be able to trace a little
2 easier; that we are not keeping the clinical
3 trial use of GHB from occurring if we were to go
4 to Schedule I. They would still be able to
5 continue to do that. I'm not sure I follow the
6 reasoning for the I to II.

7 DOCTOR HAWK: Well, I'm saying or
8 trying to say that there is latitude for the
9 flexibility to develop proven medical uses by
10 classifying it as II and bringing drugs aboard
11 as opposed to keeping it in one category which
12 means it's basically banned.

13 REPRESENTATIVE BENNINGHOFF: Banned
14 from clinical trial. I mean, there's a lot of
15 people that argue different types of drugs that
16 aren't currently -- that are Schedule I should
17 be used for medical purposes as well. Our goal
18 here, obviously, is to decrease or eliminate the
19 illicit behavior of it, the unwarranted and
20 unwanted use of it versus still allowing people
21 to use it for clinical trials.

22 DOCTOR HAWK: Some of your purposes
23 are already accomplished by bringing it into the
24 controlled substance field. Now, what we're
25 talking about right now is something that is

1 readily available without a prescription. We're
2 talking about putting significant limits on.

3 The concern is that we not give it a
4 carte-blanche prescription, open-door kind of
5 approach to it, but to make it the tightest
6 prescription control that we know of in
7 Pennsylvania which is the Schedule II level.

8 REPRESENTATIVE BENNINGHOFF: Thank
9 you very much.

10 CHAIRPERSON GANNON: Doctor
11 Sannerud, does the DEA consider ether an analog
12 or precursor for the manufacturer of, say,
13 cocaine?

14 DOCTOR SANNERUD: I don't know where
15 ether falls, but there are a lot of chemicals
16 that are used in the manufacturing process that
17 are considered listed chemicals. There's two
18 levels. There's a list I and there's a list II.
19 There's various requirements under each listing.

20 CHAIRPERSON GANNON: The point I was
21 getting at, was that, we have this GBL which is
22 the analog or precursor for GBH (sic), but it
23 appears that GBL apparently has some effect if
24 it's taken just by itself, and then once it gets
25 into the blood can be misidentified as GBH

1 (sic). I was wondering if any other analogs,
2 precursors that come under regulation that have
3 that same effect?

4 DOCTOR SANNERUD: There are probably
5 others. I just don't know offhand.

6 CHAIRPERSON GANNON: I'm sure you
7 didn't come prepared to answer that type of
8 question. But, it just seemed to me that we're
9 focusing on this GBH (sic) issue, which is where
10 they take a combination of drugs, and then this
11 GBL which apparently is going to have the same
12 effect as the GHB.

13 DOCTOR SANNERUD: DEA has received
14 reports of GBL abuse, but they've been
15 scattered. It's been more sporadic. It's a lot
16 of self-report. There were the three nutrients
17 in the other products which FDA just recently
18 band. But, the majority of the GBL is used in
19 the plastics, preliminarization process and
20 other industrial uses, so the majority of it--I
21 don't know what percent--is used in industry and
22 is not out there for sale to the individual
23 person.

24 CHAIRPERSON GANNON: Do you know
25 whether or not -- Maybe Ms. Engel could answer

1 the question. Can GBH (sic) be manufactured
2 without GBL?

3 DOCTOR HAWK: No.

4 MS. ENGEL: You need a necessary
5 component.

6 CHAIRPERSON GANNON: Are there any
7 other questions?

8 (No response).

9 CHAIRPERSON GANNON: Thank you very
10 much, Doctor Hawk and Doctor Sannerud, for
11 appearing before the committee and offering
12 testimony on this important issue.

13 Our next witness is Doctor Ward
14 Donovan, Director, Central Pennsylvania Poison
15 Center, Penn State College of Medicine.
16 Welcome, Doctor Donovan, and you may proceed
17 when you are ready.

18 DOCTOR DONOVAN: Good morning. I'm
19 not going to in the interest of time -- actually
20 it's afternoon now, and that's why for the
21 interest of time I'm not going to read my entire
22 statement. What I'd like to do is focus on just
23 what this problem is in Pennsylvania.

24 I'm not here to represent a special
25 interest group. I'm not here to represent the

1 pharmaceutical industry. I'm here to give you
2 the facts about the abuse and extent of abuse in
3 Pennsylvania of GHB and GBL and also then, based
4 on those facts, to render my opinion as a
5 medical toxicologist as to what I would urge
6 this committee to do.

7 I am reminded as I make that
8 decision of the risk benefit ratio that we all
9 in medicine use to decide whether an agent is
10 useful to use on a patient. By that I mean,
11 what are the risks to this patient versus the
12 benefits to that patient, and what are the risks
13 to society versus the benefits to society? I
14 think that's what you're dealing with in this
15 issue.

16 Let me turn my attention to the
17 facts. I'm not going to repeat all the uses of
18 GHB and the street names of GHB and GBL. I
19 think you all have become experts on that
20 already in here this morning.

21 I'm the Director of the Central
22 Pennsylvania Poison Center. I am also a Board
23 certified medical toxicologist. I also direct
24 the only regional poison treatment center in
25 Pennsylvania. What that means is that, we see

1 some of the more serious poisonings in the
2 state, and this is, of course, at the M.S.
3 Hershey Medical Center which is now part of the
4 Penn State-Geisinger Health System.

5 In 1998, the Central Pennsylvania
6 Poison Center was contacted about ten
7 individuals exposed to GHB. All of these were
8 intentional cases of abuse for a purpose of
9 achieving a high. Three of these ten had
10 hallucinations and another three were
11 unconscious and required admission to an
12 intensive care unit. One of the patients was
13 critically ill enough to require transfer to our
14 regional poison center at the Hershey Medical
15 Center.

16 Seven cases of GHB exposure
17 requiring hospitalization were also reported
18 during the last six months of 1998 by the
19 Philadelphia Poison Center.

20 I'd like, however, to place the
21 extent of abuse of GHB in context. Before that
22 you might want to turn to the third page of my
23 testimony which is a graph that we prepared to
24 show some drugs of abuse in Pennsylvania, and
25 specifically in Central Pennsylvania.

1 Our poison center of the Penn State-
2 Geisinger Health System provides poison and drug
3 information services for 3.6 million
4 Pennsylvanians in 34 counties. During 1998, we
5 had over 34,000 human drug or toxin exposure
6 managed by our center and a total of over 42,000
7 inquiries. Of these over 34,000 human exposure
8 cases, there were 570 due to drug abuse, and 332
9 were due to product tampering or for some
10 malicious use.

11 Thus, GHB accounted for only
12 .03 percent of our total human exposures and
13 only 1.8 percent of the abuse cases. I'd also
14 like to point out that we had no reported cases
15 of tampering or malicious use of GHB.

16 I would also say, however, that many
17 cases of GHB probably were undoubtedly not
18 reported to our center. But, our extensive
19 network of participating member hospitals
20 assures us that most cases of GHB exposure
21 requiring an Emergency Department visit would
22 have been captured by this system.

23 Now, particularly I turn your
24 attention to the graph to point out that in
25 contrast to the small number of reported cases

1 of GHB during 1998, there with 250 cases of
2 abuse of stimulants such as Ritalin and
3 Fenfluramine. Doctor Hawk previously testified
4 about Ritalin and the fact that it's a Schedule
5 II agent.

6 There were 25 cases of
7 Benzodiazepines abuse. Benzodiazepine, a class
8 of drugs -- The best known representative of
9 that is Valium. And there were 130 cases of
10 inhalant abuse of household products of
11 aerosols, products in all of our homes and
12 readily available at any supermarket.

13 As these figures demonstrate, abuse
14 of some drugs and products will continue to
15 occur by those inventive individuals mentioned
16 earlier here today whether these agents are
17 restricted or they are readily available.

18 There is a promising legitimate use
19 for GHB as you have heard here this morning, and
20 I will not repeat that, other than to point out
21 I would disagree, or at least qualify the
22 statement previously made by the representative
23 from the DEA.

24 There is, in fact, an accepted
25 clinical use of GHB for narcolepsy. The

1 qualification I would add is, in the United
2 States and the terminology, accepted use. It is
3 not yet an accepted FDA drug. However, as you
4 have heard from the testimony of a narcolepsy
5 patient, I think that individual would say this
6 is an accepted use in his mind. It's an
7 accepted use, by the way, in Europe.

8 I would also add that I'm currently
9 using at least three new antidotes for overdose
10 patients that are widely used in Europe and have
11 been for decades and only recently were approved
12 in United States for use because of our somewhat
13 cumbersome and prolonged process of approving
14 drugs for use in the United States.

15 Therefore, in summary, I urge
16 support of legislation to make GHB a controlled
17 substance in Pennsylvania, to reduce its
18 potential for abuse and in some rare cases of
19 use for malicious purposes.

20 At the same time, however, I
21 certainly do not agree that this drug warrants
22 classification as Schedule I. I would point out
23 Schedule I again says, by law that the drug has
24 no accepted purpose. To state that this drug is
25 a Schedule I is to deny the fact that this drug,

1 indeed in the medical community, has an accepted
2 purpose.

3 I would accede to our pharmaceutical
4 representatives to explain to you the
5 limitations of a Schedule I and even possibly a
6 Schedule II classification would have on the
7 uses of this drug.

8 Finally, I would point out that even
9 strict restrictions, unfortunately, will not
10 eliminate this drug's availability for illicit
11 purposes. Thank you for your time.

12 CHAIRPERSON GANNON: Thank you,
13 Doctor. Representative, Steelman, any
14 questions?

15 REPRESENTATIVE STEELMAN: Would you
16 comment on the suggestion made earlier that we
17 should also be looking at regulating GBL as a
18 precursor to GHB?

19 DOCTOR DONOVAN: Yes. I certainly
20 would agree with that. That goes to my comment
21 about inventive persons finding a way to have
22 this drug available. If we are going to control
23 GHB, and I agree with the Pennsylvania Medical
24 Society and my colleague Doctor Hawk in his
25 statement, I also then would suggest that GBL be

1 placed under some control as well.

2 There was a question I will answer,
3 incidentally, about the testing in the
4 laboratory and in Emergency Departments for GBL
5 and GHB. We are probably missing some cases of
6 GHB and possibly GBL use as well because this
7 standard drug screen in any emergency
8 department, in fact in every emergency
9 department in Central Pennsylvania, except for
10 our poison center at Hershey, only tests for
11 drugs of abuse, and that standard screen does
12 not include GHB or GBL.

13 And, in fact, a comprehensive drug
14 screen which is done in very few patients by
15 very few hospitals also does not screen for GHB
16 or GBL. These screens are available and
17 relatively easy to do, but you have to ask for
18 that test to be done. You can find it for a
19 prolonged period of time in the urine if you
20 know to look for it.

21 REPRESENTATIVE STEELMAN: That does
22 put an interesting perspective on it to look at
23 your chart to see that you have fewer people
24 admitted to poison control with GHB poisoning
25 than for abuse with mouthwash containing

1 ethanol?

2 DOCTOR DONOVAN: Yes, that's
3 correct. I would use this graph as a relative
4 graph rather than an absolute graph. By that I
5 mean, these probably do not represent the total
6 number of cases in Central Pennsylvania.

7 But, in relative terms you can see
8 that amphetamines, such as Ritalin, but also
9 included in amphetamines is cough and cold
10 medicines, is our greatest reason for abuse.
11 That's the tall blue column on the far left.
12 That includes not just standard amphetamines but
13 cough and cold medicines.

14 And, yes, as you point out, even
15 your mouthwash with alcohol is abused more
16 commonly than GHB. Although not a significant
17 difference actually, just one case in this small
18 series.

19 CHAIRPERSON GANNON: Representative
20 Benninghoff.

21 REPRESENTATIVE BENNINGHOFF: On that
22 same note, I don't want to dispute your graph,
23 but I don't generally get too excited about
24 graphs because they sometimes are relative.

25 I would be curious as to what

1 percentage the cold and cough medicine might be
2 part of those numbers, because you could make a
3 graph jump significantly and not necessarily
4 tell people that we are talking about cold and
5 cough. But, I'm not trying to disclaim it.

6 I think we have to also understand
7 that accessibility factor is probably an issue
8 with all these different things you list on this
9 graph. As GHB becomes more prominent and more
10 accessible, via the Internet or however you get
11 it, I would suspect that those statistics are
12 going to change. If we have this here in five
13 years from now, this graph is going to look
14 significantly different.

15 DOCTOR DONOVAN: If GHB was not a
16 controlled substance, I certainly would agree.
17 That's an absolutely excellent point. People
18 abuse and take an intentional overdose of
19 whatever is available to them. GHB should not
20 be available to them.

21 Your first comment about the
22 amphetamines, I actually did try to look at that
23 in our very complex data collection system and
24 was not able over these past few days to
25 separate that out. I can, therefore, only

1 anecdotically tell you as one who handles most
2 of these cases, the great majority of those 250
3 cases were in fact in Central Pennsylvania cough
4 and cold medicines; not the standard (drops
5 voice).

6 REPRESENTATIVE BENNINGHOFF: The
7 reason I ask this question, it's well known in
8 the Emergency Room, an alcoholic that you can't
9 get alcohol will drink mouthwash. They have to
10 hide it in the hospital all the time. They can
11 make statistics go really wild. I have two
12 other questions.

13 One, you said about antidotes. I'm
14 curious. Are you aware of the toxicology of any
15 antidotes to GHB? And again, I'm asking this
16 from an E.R. and EMS perspective because, with a
17 lot of narcotics you get a narc in we can treat
18 something and reverse it very quickly, where I'm
19 concerned, we can't do that with GHB.

20 DOCTOR DONOVAN: There are no
21 antidotes, unfortunately, for most poisons.
22 There's specifically is not an antidote for GHB
23 other than supportive care. Until very recently
24 there was no antidote for Valium, for example,
25 and there now is. There still is no antidote

1 for a barbiturate overdose or phenobarbital
2 overdose. In this particular case, no. There
3 is no antidote other than to make sure they
4 continue to breathe. If so, they will survive.

5 REPRESENTATIVE BENNINGHOFF: I have
6 one last question, and I'll skip my second one.
7 What schedule is cocaine?

8 DOCTOR DONOVAN: Cocaine we still --
9 It certainly has an accepted medical purpose. I
10 believe it's a II. It certainly isn't a I
11 because there's an accepted purpose for it.

12 REPRESENTATIVE BENNINGHOFF: That's
13 why I ask you that because it is medically --

14 CHAIRPERSON GANNON: What about
15 heroine?

16 DOCTOR DONOVAN: Heroine I believe
17 is Schedule I. I'm not quite sure of that. Our
18 DEA representative could confirm that. I
19 believe it's a Schedule I.

20 REPRESENTATIVE BENNINGHOFF: Thank
21 you. Thank you, Mr. Chairman.

22 CHAIRPERSON GANNON: Thank you.
23 Would it be fair to say from what you told us
24 about the fact that there's very little drug
25 screening occurring with GHB or the GBL; that

1 most of the data is based upon what the person
2 tells you or what witnesses tell you as opposed
3 to any objective test that would be performed?

4 DOCTOR DONOVAN: That's right. That
5 too is a good point. Most of these reporting
6 systems depend upon what the patient tells us.

7 As I stated earlier, most hospitals
8 and emergency departments do not do
9 comprehensive screening. Even when they do,
10 there are other drugs that they don't include in
11 that screen. GHB reporting is almost strictly
12 by what the patient tells us.

13 CHAIRPERSON GANNON: Thank you very
14 much, Doctor Donovan, for appearing before the
15 committee today and offering testimony on this
16 very important issue.

17 Our next witness is Ms. Diane Moyer,
18 Pennsylvania Coalition Against Rape. Welcome,
19 Ms. Moyer. You may proceed when you are ready.

20 MS. MOYER: Thank you. Thanks
21 everyone for sticking around. I know it's tough
22 to sit through three hours of testimony.

23 I'm Diane Moyer. I'm Public Policy
24 Director for the Pennsylvania Coalition Against
25 Rape. We represent 53 rape crisis centers

1 throughout the Commonwealth. We provide
2 technical assistance, advocate for legislative
3 initiatives and otherwise advise our centers.

4 I'm here today to convey PCAR's
5 support for the Attorney General's
6 recommendation for Schedule I for GHB. Although
7 we have spoken with the Governor's Office and we
8 agreed that should GHB become approved by the
9 FDA for medical use, that it would be sensible
10 for it to be scheduled as a Schedule II drug.

11 GHB is one of several substances
12 known to be used as the Representative pointed
13 out, just one of many that's used in the
14 commission of drug-facilitated rape. What is of
15 concern about GHB is, of course, as been
16 mentioned, the availability of the kits over the
17 Internet. I agree that it is salty, but it can
18 still be concealed in drinks because it's
19 colorless and odorless.

20 Rohypnol now is -- The manufacturer
21 has agreed to make a blue pill for Rohypnol. So
22 that, if it's put in somebody's drink, it is
23 discoverable.

24 The problem with GHB is, of course,
25 that it produces sedative effects. I,

1 unfortunately, had to speak with a victim just
2 last week who was a drug-induced rape. She woke
3 up unconscious -- She was unconscious. She woke
4 up. She found herself naked and condoms all
5 over her bedroom floor. She can only surmise
6 that it was as a result of a substance.

7 It may or may not have been GHB, but
8 it was certainly GHB, Rohypnol or Ketamine or
9 one of the drugs used to be known as
10 drug-facilitated rape. She had absolutely no
11 memory of leaving the party. She had no memory
12 of what happened to her. It's the amnesiac-like
13 effects of these drugs that are particularly a
14 concern to us in the rape crisis field because
15 it makes it so difficult to testify.

16 The credibility issue is questioned
17 there. Well, why did you leave the party with
18 him, or often in these cases what happens is,
19 the perpetrator slips the drug into someone's
20 drink and then is seen to help the victim out of
21 the -- being taken away from the party.

22 It looks as if the victim herself
23 became intoxicated and then the perpetrator can
24 actually be seen to help the victim. It's
25 really kind of an insidious situation.

1 I did an informal survey of our
2 centers to see how many of them knew of
3 suspected cases of drug-facilitated rape and
4 particularly GHB because I know everybody wants
5 to get the numbers. But, what they could only
6 come up with is suspected cases and seven here,
7 five here, four here.

8 The problem is, as I understand it,
9 the drug metabolizes very quickly in the system.
10 If someone is going to lay unconscious for eight
11 hours and then wake up, questioning whether or
12 not something happened, they're generally not
13 going to get into an Emergency Room situation
14 and perhaps even know to request a blood test or
15 urinalysis. So, there's quite a bit of problems
16 associated with these cases.

17 I agree with the Attorney General
18 that the best way to approach this is to
19 schedule a drug. Also, I think it's worth
20 noting that in the Violence Against Women Act
21 1999, within the House bill is a proposal to
22 schedule GHB and Rohypnol as a Schedule I drug
23 along with Ketamine which is another date-rape
24 drug on the Schedule IV.

25 I have spoken with people from

1 Orphan Medical and I'm sympathetic to clinical
2 use of GHB and treatment of narcolepsy, but as I
3 agree with the person, the doctor from DEA that
4 it is my understanding that in FDA clinical
5 trials, the GHB is, in fact, available.

6 So, until such time as the FDA
7 approves it for general distribution, I would
8 recommend -- I'm in agreement with the Attorney
9 General that it be a Schedule I drug. I'm happy
10 to entertain any questions.

11 CHAIRPERSON GANNON: Any questions?

12 (No response).

13 CHAIRPERSON GANNON: Thank you very
14 much --

15 MS. MOYER: Thanks for bearing with
16 me.

17 CHAIRPERSON GANNON: -- for wrapping
18 this up and waiting so long for us to get to
19 you. We do appreciate your testimony on this
20 important issue. Thank you for being here.

21 Unless there is any further
22 questions or comments from the committee --

23 MR. PRESKI: Two things for the
24 record. A letter from Charlie Artz from the
25 Pennsylvania Academy of Family Physicians. They

1 requested this be scheduled as a Schedule IV
2 controlled substance.

3 Also a letter from Charles Zogby,
4 Z-O-G-B-Y, of the Governor's Office. He's
5 Director of the Governor's Policy Office. They
6 are requesting it be Schedule I with a provision
7 that will allow for Schedule II if DEA and FDA
8 so approve. That's it.

9 CHAIRPERSON GANNON: With no further
10 business before the committee, this public
11 hearing is adjourned. Thank you very much.

12 (At or about 12:30 p.m., the hearing
13 concluded)

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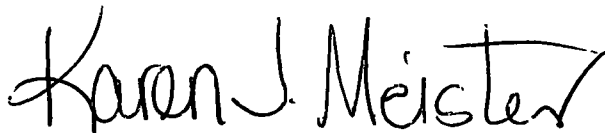
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I, Karen J. Meister, Reporter, Notary Public, duly commissioned and qualified in and for the County of York, Commonwealth of Pennsylvania, hereby certify that the foregoing is a true and accurate transcript of my stenotype notes taken by me and subsequently reduced to computer printout under my supervision, and that this copy is a correct record of the same.

This certification does not apply to any reproduction of the same by any means unless under my direct control and/or supervision.

Dated this 7th day of April, 1999.



Karen J. Meister - Reporter
Notary Public

My commission
expires 10/19/00