

U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES
FOOD AND DRUG ADMINISTRATION
CENTER FOR DRUG EVALUATION AND RESEARCH

ANESTHETIC AND LIFE SUPPORT DRUGS
ADVISORY COMMITTEE
OPEN SESSION

Thursday, November 10, 2005

9:00 a.m.

Food and Drug Administration
Advisors and Consultants Conference Room
Room 1066
5630 Fishers Lane
Rockville, Maryland

P A R T I C I P A N T S

ADVISORY COMMITTEE REPRODUCTIVE HEALTH DRUGS

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FDA Presenters:

Dan Mellon, Ph.D.
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Joan Buenconsejo, Ph.D.
Arthur Simone, M.D., Ph.D.
Lisa Basham-Cruz, M.S.
Christina Fang, M.D.
Suresh Doddapaneni, Ph.D.
Carolyn L. Yancey, M.D.
Dominic Chiapperino, Ph.D.

C O N T E N T S

Call to Order	
John T. Farrar, M.D., Acting Chair	4
Introduction of Committee	4
Open Public Hearing Session	
James Sinclair, M.D.	7
Carol Rose, M.D.	16
Marc Koch, M.D., M.B.A.	23

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

2 Call to Order

3 CHAIR FARRAR: Good morning. My name is
4 John Farrar. I'm the acting chair for this meeting.
5 I'd like to call the meeting to order.

6 Introduction of Committee

7 CHAIR FARRAR: I'd like to start, perhaps,
8 going around the table introducing ourselves, and
9 where you're from.

10 Jim, do you want to start?

11 DR. EISENACH: I'm Jim Eisenach, an
12 anesthesiologist from Wake Forest University.

13 DR. HENTHORN: Tom Henthorn from the
14 University of Colorado, Department of
15 Anesthesiology,

16 DR. DWORKIN: Bob Dworkin from the
17 University of Rochester.

18 DR. WLODY: David Wlody. I'm an
19 anesthesiologist at the State University of New
20 York, Downstate Medical Center.

21 CHAIR FARRAR: I'm John Farrar, a
22 neurologist at the University of Pennsylvania, and

1 a clinical epidemiologist.

2 DR. FERRETTI-ACETO: Victoria
3 Ferretti-Aceto, the Executive Secretary for the
4 Anesthetic and Life Support Drugs Advisory
5 Committee.

6 DR. RAPPAPORT: I'm Bob Rappaport. I'm the
7 Director of the Division of Anesthesia, Analgesia
8 and Rheumatology Products at the FDA.

9 DR. SIMONE: I'm Art Simone, Lead Medical
10 Officer--Acting Lead Medical Officer--for
11 Anesthetics in the same Division.

12 DR. KASHOKI: Mwongo Kashoki, Acting Pain
13 Team Leader, same division.

14 DR. HERTZ: Sharon Hertz, Deputy Director.

15 DR. SORIANO: Sulpicio Soriano, Children's
16 Hospital, Boston, Department of Anesthesia.

17 DR. ROCA: Rigoberto Roca, Deputy Director.

18 Open Public Hearing Session

19 CHAIR FARRAR: We need to read some
20 guidance about this particular meeting.

21 Both the Food and Drug Administration and
22 the public believe in a transparent process for

1 information gathering and decision-making. To
2 ensure such transparency at the open public hearing
3 sessions of the advisory committee meetings, FDA
4 believes that it is important to understand the
5 context of an individual's presentation.

6 For this reason, FDA encourages you, the
7 open public hearing speaker, at the beginning of
8 your written or oral statement, to advise the
9 committee of any financial relationship that you
10 have with any company or any group that is likely
11 to be impacted by the topic of this meeting. For
12 example, the financial information may include a
13 company's or a group's payment of your travel,
14 lodging or other expenses in connection with your
15 attendance at the meeting.

16 Likewise, FDA encourages you, at the
17 beginning of your statement, to advise the
18 committee if you do not have any such financial
19 relationships.

20 If you choose not to address this issue of
21 financial relationships at the beginning of your
22 statement, it will not preclude you from speaking.

1 With that, I'd like to open the public
2 hearing.

3 [Pause.]

4 Apparently the AV is not working quite up
5 to snuff.

6 The first speaker is Eugene Sinclair, the
7 AM Society of Anesthesiologists.

8 Dr. Sinclair?

9 James Sinclair, M.D., American Society of
10 Anesthesiologists

11 DR. SINCLAIR: Good morning. My name is
12 Dr. Eugene P. Sinclair. I have no financial
13 conflicts involved with this testimony that I am
14 about to give.

15 I am a board certified anesthesiologist
16 and immediate past president of the American
17 Society of Anesthesiologists--or ASA. For our
18 40,000 member physicians, patient safety is
19 paramount.

20 I am here today to present ASA's position
21 on FDA Petition #2005P-0267, which seeks to remove
22 the warning language from the package insert for

1 the anesthetic drug propofol--or Diprivan. A
2 formal letter form ASA stating our concerns was
3 sent to the FDA on October 19, 2005. ASA strongly
4 believes that the requested label change should be
5 denied. Neither clinical data nor the best
6 interests of patient safety support the request.

7 I will elaborate on the major points
8 covered in our letter: first, the risk that
9 propofol may induce a state of general anesthesia
10 necessitating that the physician be able to
11 recognize and manage life-threatening anesthetic
12 complications; and, second, crucial evidence that
13 it may be safely administered by clinicians not
14 trained in anesthesiology.

15 The first and foremost point is that
16 propofol is a powerful anesthetic agent that can
17 produce varying levels of sedation along the
18 continuum from sedation to general anesthesia. It
19 is not possible to predict how an individual
20 patient will respond within this continuum.
21 Because of propofol's extremely rapid onset and
22 high potency, the desired level of sedation is

1 easily and often exceeded. Wide variation in
2 individual response to a standard intravenous dose
3 of propofol often causes a patient to enter an
4 unintended state of general anesthesia within as
5 little as 30 seconds. There is also an impressive
6 20-fold variation among individuals in the rate of
7 metabolism of propofol. It is imperative to note
8 that propofol has no antagonist or reversal
9 medications--in contrast to benzodiazepines and
10 narcotics, the other sedatives that are currently
11 used by non-anesthesiologist physicians.

12 Due to the potential for rapid, profound
13 changes in sedative and anesthetic depth, and the
14 lack of antagonist agents, drugs such a propofol
15 require special attention. This means that the
16 clinician administering propofol must have the
17 technical skill, knowledge and experience
18 instantaneously to recognize and rescue a patient
19 experiencing any of the sequella of general
20 anesthesia, which include life-threatening
21 respiratory and cardiovascular emergencies.

22 Therefore, the physician should have the

1 education and training to manage the potential
2 medical complications of sedation and anesthesia.
3 The physician should be proficient in recognizing
4 and managing the often subtle signs of adverse
5 respiratory or cardiovascular events to prevent
6 complications such as hypoxia, hypoventilation,
7 bradycardia, tachycardia, hypotension, hypertension
8 And failure to rescue has consistently--and
9 reported in the gastroenterology literature as a
10 prominent cause of poor outcomes. In particular,
11 that literature shows greater rates of
12 complications among patients with imperfect health
13 and patients who are older than 50 years of age.

14 Some state health agencies are also aware
15 of the threat to patient safety. Between the years
16 2001 and 2004, no fewer than 38 deaths related to
17 the performance of endoscopies in ambulatory
18 surgery centers were reported to the Florida Health
19 Care Administration Board of Medicine.

20 We note that many gastroenterologists work
21 with anesthesiologists or CRNAs and are unwilling
22 to jeopardize patient safety. For that reason,

1 some of ACG's own members oppose its stance on
2 propofol, and the ACG's immediate past president
3 has said that he believes 'that this is the most
4 internally divisive issue in clinical
5 gastroenterology at this time."

6 Privileges to administer general
7 anesthesia awarded by the facility in which a
8 physician practice are the best indicator of
9 satisfactory training and experience in the use of
10 propofol. Removal of the warning label from the
11 propofol package insert will encourage the use of
12 propofol by practitioners with inadequate training
13 and experience--particularly in non-accredited
14 facilities where credentialing is not required,
15 such as private offices.

16 With 20 percent of procedures already
17 being performed in private offices, and the
18 proportion expected to grow, this will pose a major
19 patient safety risk. Not all private offices or
20 endoscopy centers are equipped or staffed for
21 emergency care--even lacking the basic skill to
22 perform emergency endotracheal intubation. Nor are

1 they located within a couple of minutes of
2 anesthesiologist or emergency physician services.
3 We have heard of facilities relying on a 911 call
4 as their front-line emergency system. This is not
5 acceptable.

6 The ACG petition also seeks the removal of
7 the portion of the propofol label warning that the
8 individual administering propofol should not be
9 involved in the conduct of the diagnostic or
10 surgical procedure. We are concerned that granting
11 the petition would make it more likely--especially
12 in the private offices mentioned above--that the
13 gastroenterologist performing the endoscopic
14 procedure might not use a second clinician to
15 administer the propofol and monitor the patient
16 continuously with no other responsibilities. A
17 designated individual, other than the practitioner
18 performing the procedure, with no other
19 responsibilities must be present to monitor the
20 patient throughout the procedure. This is
21 indispensable to the safety of sedation with
22 population.

1 The ACG presented many studies in support
2 of their position. We asked Methodology Group of
3 the ASA Committee on Practice Parameters to analyze
4 the studies cited, using standard techniques for
5 assessing the strength of literature and the
6 preparation of evidence-based practice parameters.
7 The methodologists concluded that the studies did
8 not provide sufficient statistical or
9 meta-analytical evidence to address the two major
10 safety concerns: first, use of propofol by
11 non-anesthesiologists; and, second, the involvement
12 of the same physician responsible for the sedation
13 in the conduct of the surgical or diagnostic
14 procedure.

15 Only one of the studies sufficiently
16 addressed the administration of propofol by
17 anesthesiologists compared to
18 non-anesthesiologists. In a recent abstract of
19 that study, the investigators, not surprisingly,
20 concluded that the administration of propofol by
21 anesthesiologists is associated with a lower
22 relative risk of cardiopulmonary complications

1 compared to its administration by
2 non-anesthesiologists.

3 Another reason why the studies cited in
4 the petition fail to establish the safety of
5 propofol is that the expected anesthesia mortality
6 rate in healthy patients is one in every 300,000
7 cases. All of the studies combined do not
8 encompass 300,000 patients. The number of cases
9 required for statistical significance far exceeds
10 that number.

11 The American Society of Anesthesiologists
12 is proud of its success in bringing the rate down
13 to this level, but doubts that clinicians with less
14 skill, training and experience than its members can
15 achieve an equivalent safety record when
16 administering deep sedation or general anesthesia.

17 Removing the warning label from population
18 would encourage its wider use by other
19 non-anesthesiologists, and the number of
20 complications would be even greater if that were to
21 occur. For example, emergency room physicians face
22 particular risks, since their patients are not

1 usually fasting, and thus can be expected to have a
2 higher incidence of aspiration. Pediatricians have
3 even greater challenges titrating propofol for
4 their immature patients.

5 There is no evidence to show that patient
6 safety would be protected by the proposed labeling
7 modification.

8 Given the totally inconclusive research
9 presented to this committee on the safety of
10 propofol administration--with or without continuous
11 monitoring of the patient--by
12 non-anesthesiologists, and the irrelevance of
13 economic concerns discussed in the ACG petition.

14 The FDA must deny the petition and should
15 not change the warning label on propofol.

16 Thank you.

17 CHAIR FARRAR: Are there any
18 clarifications? Requests by members of the
19 committee?

20 [No response.]

21 All right--next I'd ask Carol Rose, M.D.,
22 testifying as a private citizen.

1 Carol Rose, M.D.

2 DR. ROSE: Thank you very much. My name is
3 Dr. Carol Rose, I am a board certified
4 anesthesiologist at the University to Pittsburgh
5 Medical Center, and a former member of this FDA
6 committee on Anesthesia and Life Support Drugs.

7 I have no financial conflicts.

8 I am here today to share my comments on
9 what I believe to be a significant risk to
10 anesthesia patient safety.

11 Propofol, a potent and commonly used
12 anesthetic agent currently carries a warning label
13 which mandates that it should be administered only
14 by persons trained in the administration of general
15 anesthesia. On June 28th, the American College of
16 Gastroenterology filed a petition with the FDA
17 seeking to remove that warning.

18 In trained hands, propofol offers many
19 advantages over other drugs used for sedation
20 because of its rapid onset and short duration of
21 action. However, some practitioners have been
22 lulled into a false sense of security, allowing the

1 drug's good safety profile to influence their
2 beliefs that propofol is safer than it really is.

3 Propofol dosing and titration is variable,
4 based on the patient's tolerance to the drug.
5 Profound changes can occur rapidly, and a patient
6 can go from breathing normally to a full
7 respiratory arrest in seconds, even at low
8 doses--and without warning from typical assessment
9 parameters. Similar to midazolam, the side effects
10 of propofol include apnea and hypotension. The
11 propofol warning label expressly states that
12 overdosage is likely to cause cardiorespiratory
13 depression which should be treated by artificial
14 ventilation with oxygen.

15 The risks of this medication are quite
16 significant if administered improperly. My concern
17 with lessening the label's restrictions is that
18 individuals who lack the proper and extensive
19 training in anesthesia will be unfamiliar with
20 vital functions such as assessing respiratory
21 status, supporting, maintaining, manipulating,
22 and/or intubating the airway in order to keep

1 patients safety sedated.

2 Many non-anesthesia care providers are
3 unaware of the differences between conscious
4 sedation--also known as "moderate sedation--and
5 deep sedation and general anesthesia, or are unable
6 to maintain that difference when they intend to.
7 Tangential to that, they lack the day-to-day
8 experience working with this and other potent
9 anesthetic agents. Again, just like midazolam,
10 where a number of fatal overdoses were seen in
11 gastroenterologists' offices, the use of propofol
12 by non-anesthesia trained providers could result in
13 similar disasters.

14 And I will tell you that the facility
15 where I work, when the gastroenterologists were in
16 charge o the sedation in the GI lab, we had
17 multiple Condition A and Condition C's, which are
18 the overhead calls for help for resuscitation. And
19 when the anesthesia department took over the care
20 of those patients in the GI lab, those calls
21 essentially went to zero.

22 According to a November 1st article

1 published by the Institute for Safe Medication
2 Practices, a gastroenterologist asked a nurse to
3 prepare "10 mL" of the drug for a patient
4 undergoing endoscopy. And 10 mg/mL, that requested
5 dose was 100 mg, a dose far too large for the
6 circumstance. The nurse obtained the drug from an
7 automated dispensing cabinet via override before
8 she transcribed the order to the patient's record.
9 Another nurse--who was trained in the use of
10 moderate sedation, but not deep sedation or
11 anesthesia--assisted the gastroenterologist. After
12 questioning the physician about the dose, she began
13 administering the propofol via an infusion pump.
14 The patient suddenly experienced respiratory
15 arrest. Fortunately, ICU staff were able to help
16 with the emergency, and quickly intubated and
17 ventilated the patient.

18 A similar case involved a Florida
19 physician who thought he could safely administer
20 propofol himself while performing a breast
21 augmentation. Unfortunately, this patient, a young
22 woman, died of hypoxic encephalopathy because he

1 failed to notice the patient's rapidly declining
2 respiratory status, as had his surgical assistant,
3 who was not qualified to monitor patients under
4 deep sedation or anesthesia.

5 And I have that ISMP report here. And I
6 would like to read the conclusion of that ISMP
7 report.

8 "The debate about who should be allowed to
9 administer propofol may continue. But one thing is
10 clear: whenever propofol is used for sedation or
11 anesthesia, it should be administered only by
12 persons who are trained in the administration of
13 drugs that cause deep sedation and general
14 anesthesia; and, number two, able to intubate the
15 patient if necessary; and, number three, not
16 involved simultaneously in the procedure itself."

17 In brief, the American Society of
18 Anesthesiologists, the American Association of
19 Nurse Anesthetists, and the American Association
20 for the Accreditation of Ambulatory Surgical
21 Facilities believe that only persons trained in the
22 administration of general anesthesia, who are not

1 simultaneously involved in the procedures, should
2 administer propofol to non-ventilated patients.

3 The Pennsylvania Society of
4 Anesthesiologists--of which I am a past
5 president--and the Pennsylvania Association of
6 Nurse Anesthetists has previously issued a joint
7 statement in this regard. I have supplied the
8 committee with a copy of that statement. And you
9 will note the final paragraph--which is the essence
10 of it--states that the drug should be administered
11 "by a practitioner with training and experience in
12 the management of general anesthesia."

13 The importance of that statement is that
14 no one--even an experienced anesthesiologist--can
15 predict when sedation will progress into a general
16 anesthetic. Therefore that person must be able to
17 manage a general anesthetic in all ways--and, in
18 this case, must be able to do all aspects of airway
19 management and maintenance of vital signs.

20 As a physician who is an anesthesiologist,
21 I see no benefit in lessening the restrictions of
22 this warning label. As a medical doctor, I am

1 reminded of the section of the Hippocratic Oath,
2 which reads: I will seek the counsel of
3 particularly skilled physicians where indicated for
4 the benefit of my patient," and "I will follow that
5 method of treatment which according to my ability
6 and judgment, I consider for the benefit of my
7 patient, and abstain from whatever is harmful or
8 mischievous."

9 It is my opinion that the efforts of this
10 petition seem to contradict these statements.
11 Lessening these restrictions would result in many
12 adverse outcomes and a reduction in the quality of
13 care provided to the patients.

14 And I would like to quote one of our
15 recent past presidents of the American Society of
16 Anesthesiologists, who used his motto for his
17 entire year of presidency. And he said, "After
18 all, it is all about the patients."

19 So, for patients' safety sake, we request
20 that you not change the label of this drug.

21 Thank you again for allowing me the
22 opportunity to speak before you. And I would be

1 happy to answer any questions that you may have.

2 CHAIR FARRAR: Any issues or clarifications
3 requested by the committee?

4 [No response.]

5 DR. ROSE: Thank you.

6 CHAIR FARRAR: Thank you very much.

7 And our last speaker in this segment is
8 Mark Koch, M.D., M.B.A., for Somnia, Incorporated.

9 Marc Koch, M.D., M.B.A.,, Somnia, Incorporated

10 DR. KOCH: I'd like to thank the committee
11 for allowing me a few minutes to share my thoughts
12 on the petition put forth by the American College
13 of Gastroenterology.

14 My name is Dr. Marc Koch, and I am a Board
15 Certified Anesthesiologist, Certified Pain
16 Management doctor, and assistant clinical adjunct
17 processor of anesthesia at SUNY at Stonybrook. I
18 also serve as president and chief executive officer
19 of Somnia. Somnia is an anesthesia management
20 company. In 2006, we will anesthetize over 100,000
21 patients in the ambulatory setting in nine states.

22 We are very familiar with the clinical

1 applications of this drug as specifically discussed
2 here today.

3 We have seen clinically, in the operating
4 room, in all the states where we cover, where this
5 drug is an extremely potent drug. In the GI
6 literature where they talk about this drug, they
7 talk about giving 30 mg, a few cc's at a time, and
8 discuss how that's safe.

9 As a practicing anesthesiologist, I can
10 tell you a pure sedative drug like propofol, at a
11 low dose like that, will cause disinhibition. When
12 the sigmoidoscope gets flexed, when something
13 painful occurs, the patient's going to react. What
14 will happen clinically is more frequent doses will
15 be given, and large doses will be given--until such
16 time as the patient cannot move. When the patient
17 cannot move, they have therefore slipped into deep
18 sedation or general anesthesia. That is a clinical
19 reality.

20 When this drug is being used, it's being
21 used to cause deep sedation or general anesthesia.
22 Even some of the studies by the GI folks have shown

1 that the BIS monitor--which monitors the level of
2 arousal--indicates that the patients are under
3 general anesthesia.

4 As other speakers have mentioned here
5 today, there's no antagonist to this drug. The
6 degradation could vary by 20-fold, and the
7 responsive patients could vary remarkably. A dose
8 which could have me talking here to you right now
9 could put somebody else to sleep, and could put
10 somebody else somewhere in between.

11 The net point I wanted to talk about
12 briefly was specialization. Medicine has come an
13 enormous way through specialization. Fifteen years
14 ago, 20 years ago, when there were just
15 gastroenterologists, now we have hepatologists,
16 nutritionists, pancreatologists--you name it. And
17 that's the because the body of literature, the
18 ability to keep abreast and take the best care of
19 patients is achieved by studying less and knowing
20 more.

21 And we feel that this petition is taking a
22 step backwards. It's encouraging people--licensed

1 practical nurses, registered nurses, medical
2 assistants, or other physicians not trained in
3 general anesthesia, to be handling potent
4 anesthetic agents with no reversal agents with no
5 reversal agents. To us that is worrisome, it is
6 dangerous, and the results could be catastrophic.

7 My third point is the data. The data
8 which they have put forth takes a look at 100,000
9 patients. Some studies have much less, some a
10 little bit more. If you take a look at their
11 studies, the one thing I could say with absolute
12 certainty is there is no conclusive proof that this
13 medication, used by folks who are not trained in
14 the administration of general anesthesia, in the
15 multitude of settings in which it will be used,
16 will result in the same patient outcomes as in the
17 hands of anesthesiologists or trained anesthesia
18 professionals.

19 Don't forget: 20 percent of all surgery
20 occurs in physicians' offices. More than half
21 occurs in ambulatory surgery centers. These
22 facilities are far away from an ICU. They're far

1 away from an emergency room. They're far away from
2 an anesthesia work group.

3 We're not the only people who feel this
4 way. In addition to the American Society of
5 Anesthesiologists, the American Association of
6 Nurse Anesthetists, the Joint Commission on
7 Accreditation of Health Organizations, the American
8 Association for the Accreditation of Ambulatory
9 Surgical, Facilities, the Nursing Boards of more
10 than 12 states--and additional state legislatures,
11 like Pennsylvania and New Jersey, have said
12 conclusively, without recourse, that this
13 medication should only be used by people who are
14 trained in general anesthesia.

15 We've also spoken to many
16 anesthesiologists to get their feedback on this: do
17 we speak alone or do we speak in unison? We have
18 over 300 signatures of anesthesiologists, which
19 represents--they're just a little bit less than 1
20 percent that we got in one meeting, from people who
21 felt the same way.

22 And the most important point I want to get

1 to--and I saved what I consider to be my most
2 important point for last: 20 percent of all surgery
3 occurs in office-based facilities. Veristan and
4 SMG marketing have done studies which have shown
5 this to be the case. Many payers are implementing
6 programs to contain costs by shifting procedures
7 from the hospital to the surgery center to
8 office-based surgical facilities. There are fewer
9 indirect costs, and a more cost-effective
10 environment can be achieved. Many payers are
11 initiating programs that are going to shift
12 procedures to less intensive, less costly settings,
13 which means patients are going to receive
14 anesthesia in these settings.

15 If this label change goes through, we
16 could find up to 20 percent of patients being cared
17 for--from an anesthesia point of view--in
18 environments that are very far away from hospitals,
19 very far away from surgery centers, very far away
20 from ICUs and ERs--20 percent.

21 I want to just put this in sort of a real
22 situation here. You know, one out of every five of

1 us who may undergo a procedure may have it occur on
2 the 13th floor of a commercial office building. It
3 may occur in a storefront endoscopy suite, with a
4 check-cashing store on one side, and a grocery
5 store on the other. Would you feel comfortable if
6 the gastroenterologist, along with a medical
7 assistant, was administering you a dose of propofol
8 for your procedure? Far away from the hospital,
9 far away from the ER, far away from the ICU?

10 If you don't feel comfortable with that
11 situation, then I think it speaks for itself about
12 why this petition should be declined.

13 I'd be happy to answer any questions.

14 CHAIR FARRAR: Any questions or
15 clarifications?

16 [No response.]

17 DR. ROSE: Thank you very much.

18 CHAIR FARRAR: Okay--thank you.

19 I believe that that concludes the session.
20 So we conclude the open public hearing session for
21 the Anesthesia and Life Support Drug Advisory
22 Committee Meeting on November 10, 2005.

1 We will ask for everyone who's not a
2 member of the committee to leave the room. Those
3 that will be participating in the closed session,
4 please have your FDA identification ready, as we'll
5 be signing you in before we re-enter the room.

6 Thank you.

7 [Whereupon, at 9:43 a.m., the open meeting
8 concluded, the Committee to reconvene in closed
9 session immediately following.]

10 - - -