DEPARTMENT OF HEALTH AND HUMAN SERVICES

Food and Drug Administration
21 CFR Part 111

[Docket No. 95N–0304]

RIN 0910–AC51

Dietary Supplements Containing Ephedrine Alkaloids; Reopening of the Comment Period

AGENCY: Food and Drug Administration, HHS.

ACTION: Proposed rule; reopening of the comment period.

SUMMARY: The Food and Drug Administration (FDA) is reopening for 30 days the comment period for a proposed rule entitled “Dietary Supplements Containing Ephedrine Alkaloids” that published in the Federal Register of June 4, 1997 (62 FR 30678) (the June 1997 proposal). In that document, FDA proposed a number of requirements relating to dietary supplements containing ephedrine alkaloids, including a requirement for a warning statement on the product label. Since publication of the June 1997 proposal, new scientific evidence has come to light concerning health risks associated with the use of dietary supplements containing ephedrine alkaloids. FDA is reopening the comment period to receive comment on this new evidence, as well as on the warning statement it is now considering for dietary supplements containing ephedrine alkaloids. FDA also intends to consider, to the extent possible, whether in light of current information FDA should determine that dietary supplements containing ephedrine alkaloids present a “significant or unreasonable risk of illness or injury under conditions of use recommended...”
or suggested in labeling, or if no conditions of use are suggested or recommended in the labeling, under ordinary conditions of use.”

**DATES:** Submit written or electronic comments [insert date 30 days after date of publication in the Federal Register].

**ADDRESSES:** Submit written comments to the Dockets Management Branch (HFA–305), Food and Drug Administration, 5630 Fishers Lane, rm. 1061, Rockville, MD 20852. Submit electronic comments to http://www.fda.gov/dockets/ecomments.

**FOR FURTHER INFORMATION CONTACT:** Anthony Curry, Center for Food Safety and Applied Nutrition (HFS–306), Food and Drug Administration, 5100 Paint Branch Pkwy., College Park, MD 20740, 301–436–2071.

**SUPPLEMENTARY INFORMATION:**

**I. Reopening of Comment Period**

In the Federal Register of June 4, 1997 (62 FR 30678) (the June 1997 proposal), FDA (“we” or “the agency”) proposed to amend our regulations to require the label of dietary supplements containing ephedrine alkaloids to bear a warning statement. The proposed warning statement contained several elements, including cautions that consumers not use the product if they have certain diseases or health conditions or are using certain drugs, and that they stop using the product if they develop certain signs or symptoms. FDA also proposed restrictions on the potency and composition of dietary supplements containing ephedrine alkaloids, including a prohibition on the use of ephedrine alkaloids in dietary supplements with ingredients, or with ingredients that contain substances that have a known stimulant effect, such
as caffeine. In addition, the agency proposed several requirements and restrictions relating to labeling claims and directions for use.

We proposed these actions in response to reports of serious illnesses and injuries, including a number of deaths, associated with the use of dietary supplements containing ephedrine alkaloids and the agency’s investigations and assessment of these illnesses and injuries.

The comment period for the proposed rule closed on August 18, 1997. On September 18, 1997, FDA reopened the comment period for 75 days until December 2, 1997 (62 FR 48968).

In the Federal Register of April 3, 2000 (65 FR 17474), we withdrew the proposed requirements and restrictions concerning potency, labeling claims, and directions for use, but not the proposed warning statement or the proposed prohibition on dietary supplements that combine ephedrine alkaloids with other stimulant ingredients. In the same issue of the Federal Register (65 FR 17510), we also announced the availability of adverse event reports and related information that had become available since the June 1997 proposal; we reopened the comment period until May 18, 2000, to receive comments on this new information (Docket No. 00N–1200).

Recently, more scientific evidence has come to light concerning the risks posed by ephedrine alkaloids, including approximately 17,000 adverse event reports received overall by FDA. For example, one study compared the risks of adverse events attributable to ephedra and other herbal products through a comparative case series investigation based upon poison control center reporting (Ref. 1). Another study, a case-controlled investigation, examined the association between the use of ephedra and the risk for hemorrhagic stroke (Ref. 2). One study evaluated the adverse cardiovascular events from the FDA
database that were temporally associated with the use of ephedra (Ref. 3). Another study evaluated the pharmacology of ephedrine alkaloids and caffeine after a single dose in humans (Ref. 4). Two studies were double-blind controlled clinical trials that evaluated the efficacy of ephedra in combination with caffeine for weight loss, with treatment durations of 6 weeks (Ref. 5) or 6 months (Ref. 6). Further, the RAND Corporation, under contract with the U.S. Department of Health and Human Services, has conducted an evidence-based review of all available sources of information on ephedrine alkaloid containing dietary supplements [Ref. 7].

Comments to the June 1997 proposal stressed the importance of ensuring that consumers were aware of the risks of consuming dietary supplements containing ephedrine alkaloids. Therefore, in light of the new scientific evidence as well as the comments received in response to the June 1997 proposal, FDA is considering the following warning statement for dietary supplements containing ephedrine alkaloids. This statement is consistent with the recent scientific reports referenced in this document.
The following warning statement would appear on the principal display panel of the product:

**WARNING:** Contains ephedrine alkaloids. Heart attack, stroke, seizure, and death have been reported after consumption of ephedrine alkaloids. Not for pregnant or breast-feeding women or persons under 18. Risk of injury can increase with dose or if used during strenuous exercise or with other products containing stimulants (including caffeine). Do not use with certain medications or if you have certain health conditions. Stop use and contact a doctor if side effects occur. See more information [...].

The following additional information would appear on the outer product label or in product labeling that is an integral part of the outer product packaging such that this information may be read at point of purchase (For example, this information could be contained in the outer information panel, riser backing, panel extension, outsert, etc.):

**This product contains ephedrine alkaloids, which can have potentially dangerous effects on the heart and central nervous system.**

- **Do not use with**
  - a monoamine oxidase inhibitor (MAOI) or for 2 weeks after stopping a MAOI drug;
  - certain drugs for depression, psychiatric, or emotional conditions;
  - drugs for Parkinson's disease;
  - drugs for obesity or weight control;
  - methyldopa.

- **Contact a doctor before using this product if you have or ever had**
  - heart disease, high blood pressure, thyroid disease, seizure, diabetes, depression, other mental, emotional or behavioral conditions, glaucoma, or difficulty urinating due to prostate enlargement.

- **Stop use and contact a doctor immediately if these side-effects occur**
  - dizziness, severe headache, rapid and/or irregular heartbeat, chest pain, shortness of breath, nausea, loss of consciousness, or changes in emotions or behavior (such as depression, hallucinations or severe mood swings)

- **Your risks of serious side-effects from this product can increase**
  - with increased dose, frequency, or duration of use;
  - if you take it with other dietary supplements containing ephedrine alkaloids (such as ephedra, ma huang, Sida cordifolia);
  - if you take it with additional products containing stimulants, such as caffeinated beverages and foods (including dietary supplements containing guarana, kola nut, mate, yohimbine/yohimbe, Citrus aurantium);
  - if you take it with medications containing synephrine, phenylephrine, ephedrine, pseudoephedrine, or phenylpropanolamine;
  - if you use it before or during strenuous exercise.
FDA also intends to consider, to the extent possible, whether in light of current information FDA should determine that dietary supplements containing ephedrine alkaloids present a "significant or unreasonable risk of illness or injury under conditions of use recommended or suggested in labeling, or if no conditions of use are suggested or recommended in the labeling, under ordinary conditions of use" (see 21 U.S.C. 342(f)(1)(A)). Furthermore, FDA seeks comment on what additional legislative authorities, if any, would be necessary or appropriate to enable FDA to address this issue most effectively.

For interested parties who would like to submit comments on these issues or additional data from any well-conducted scientific studies, we are reopening the comment period of the June 1997 proposal for 30 days. If, after evaluating the comments received on this document, FDA believes that a warning statement on the labels of dietary supplements containing ephedrine alkaloids is necessary to protect the health of individuals consuming such products, the agency will move quickly to publish a final rule requiring the appropriate warning statement and to take any other action we determine to be appropriate.

II. How to Submit Comments

Interested persons may submit to the Dockets Management Branch (see ADDRESSES) written or electronic comments. Two copies of any mailed comments are to be submitted, except that individuals may submit one copy. Submit electronic comments to http://www.fda.gov/dockets/ecomments. Identify all comments with the docket numbers found in brackets in the heading of this document. You may review received comments in the Dockets Management Branch office between 9 a.m. and 4 p.m., Monday through Friday.
III. References

The following references have been placed on display in the Dockets Management Branch (see ADDRESSES) and may be seen by interested persons between 9 a.m. and 4 p.m., Monday through Friday.


William K. Hubbard,
Associate Commissioner for Policy and Planning.

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