CENTER FOR DRUG EVALUATION AND RESEARCH

Approval Package for:

APPLICATION NUMBER:

11-641/s065

- *Trade Name:* Diabinese Tablets
- Generic Name: chlorpropamide
- *Sponsor:* Pharmacia & Upjohn Company
- Approval Date: August 27, 2009
- *Indication:* Indicated as an adjunct to diet and exercise to improve glycemic control in adults with type 2 diabetes.

CENTER FOR DRUG EVALUATION AND RESEARCH

APPLICATION NUMBER: 11-641/s065

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CENTER FOR DRUG EVALUATION AND RESEARCH

APPLICATION NUMBER:

11-641/s065

APPROVAL LETTER



DEPARTMENT OF HEALTH & HUMAN SERVICES

Public Health Service

Food and Drug Administration Silver Spring, MD 20993

NDA 11-641/S-065

Pharmacia & Upjohn Company Attention: Kathleen Collins Manager, Worldwide Regulatory Strategy 235 East 42nd Street New York, NY 10017

Dear Ms. Collins:

Please refer to your supplemental new drug application dated March 4, 2009, received March 4, 2009, submitted under section 505(b) of the Federal Food, Drug, and Cosmetic Act for Diabinese (chlorpropamide) Tablets.

We acknowledge receipt of your submission dated April 9, 2009.

This "Changes Being Effected" supplemental new drug application provides for the addition of language regarding Hemolytic Anemia under the PRECAUTIONS section of the Package Insert. This supplement was submitted in response to our supplement request letter dated January 15, 2009.

We have completed our review of this application, as amended. This application is approved, effective on the date of this letter, for use as recommended in the agreed-upon labeling text.

As soon as possible, but no later than 14 days from the date of this letter, please submit the content of labeling [21 CFR 314.50(l)] in structured product labeling (SPL) format as described at <u>http://www.fda.gov/oc/datacouncil/spl.html</u> that is identical in content to the enclosed labeling (text for package insert submitted on April 9, 2009). Upon receipt, we will transmit that version to the National Library of Medicine for public dissemination. For administrative purposes, please designate this submission, "SPL for approved NDA 11-641/S-065."

If you issue a letter communicating important information about this drug product (i.e., a "Dear Health Care Professional" letter), we request that you submit a copy of the letter to this NDA and a copy to the following address:

MEDWATCH Food and Drug Administration Suite 12B05 5600 Fishers Lane Rockville, MD 20857

We remind you that you must comply with reporting requirements for an approved NDA (21 CFR 314.80 and 314.81).

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If you have any questions, call Julie Marchick, Regulatory Project Manager, at (301) 796-1280.

Sincerely,

{See appended electronic signature page}

Mary H. Parks, M.D. Director Division of Metabolism and Endocrinology Products Office of Drug Evaluation II Center for Drug Evaluation and Research

Enclosure: Package Insert

This is a representation of an electronic record that was signed electronically and this page is the manifestation of the electronic signature.

/s/

MARY H PARKS 08/27/2009

CENTER FOR DRUG EVALUATION AND RESEARCH

APPLICATION NUMBER:

11-641/s065

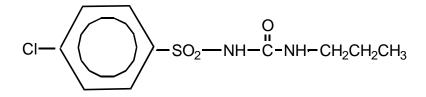
LABELING

DIABINESE[®]

(chlorpropamide) TABLETS, USP For Oral Use

DESCRIPTION

DIABINESE® (chlorpropamide), is an oral blood-glucose-lowering drug of the sulfonylurea class. Chlorpropamide is 1-[(p-Chlorophenyl)sulfonyl]-3-propylurea, $C_{10}H_{13}ClN_2O_3S$, and has the structural formula:



Chlorpropamide is a white crystalline powder, that has a slight odor. It is practically insoluble in water at pH 7.3 (solubility at pH 6 is 2.2 mg/mL). It is soluble in alcohol and moderately soluble in chloroform. The molecular weight of chlorpropamide is 276.74. DIABINESE is available as 100 mg and 250 mg tablets.

Inert ingredients are: alginic acid; Blue 1 Lake; hydroxypropyl cellulose; magnesium stearate; precipitated calcium carbonate; sodium lauryl sulfate; starch.

CLINICAL PHARMACOLOGY

DIABINESE appears to lower the blood glucose acutely by stimulating the release of insulin from the pancreas, an effect dependent upon functioning beta cells in the pancreatic islets. The mechanism by which DIABINESE lowers blood glucose during long-term administration has not been clearly established. Extra-pancreatic effects may play a part in the mechanism of action of oral sulfonylurea hypoglycemic drugs. While chlorpropamide is a sulfonamide derivative, it is devoid of antibacterial activity.

DIABINESE may also prove effective in controlling certain patients who have experienced primary or secondary failure to other sulfonylurea agents.

A method developed which permits easy measurement of the drug in blood is available on request.

Chlorpropamide does not interfere with the usual tests to detect albumin in the urine.

DIABINESE is absorbed rapidly from the gastrointestinal tract. Within one hour after a single oral dose, it is readily detectable in the blood, and the level reaches a maximum within two to four hours. It undergoes metabolism in humans and it is excreted in the urine as unchanged drug and as hydroxylated or hydrolyzed metabolites. The biological half-life of chlorpropamide averages about 36 hours. Within 96 hours, 80-90% of a single oral dose is excreted in the urine. However, long-term administration of therapeutic doses does not result in undue accumulation in the blood, since absorption and excretion rates become stabilized in about 5 to 7 days after the initiation of therapy.

DIABINESE exerts a hypoglycemic effect in healthy subjects within one hour, becoming maximal at 3 to 6 hours and persisting for at least 24 hours. The potency of chlorpropamide is approximately six times that of tolbutamide. Some experimental results suggest that its increased duration of action may be the result of slower excretion and absence of significant deactivation.

INDICATIONS AND USAGE

DIABINESE is indicated as an adjunct to diet and exercise to improve glycemic control in adults with type 2 diabetes mellitus.

CONTRAINDICATIONS

DIABINESE is contraindicated in patients with:

- 1. Known hypersensitivity to any component of this medicine.
- 2. Type 1 diabetes mellitus, diabetic ketoacidosis, with or without coma. This condition should be treated with insulin.

WARNINGS

SPECIAL WARNING ON INCREASED RISK OF CARDIOVASCULAR MORTALITY

The administration of oral hypoglycemic drugs has been reported to be associated with increased cardiovascular mortality as compared to treatment with diet alone or diet plus insulin. This warning is based on the study conducted by the University Group Diabetes Program (UGDP), a long-term prospective clinical trial designed to evaluate the effectiveness of glucose-lowering drugs in preventing or delaying vascular complications in patients with non-insulin-dependent diabetes. The study involved 823 patients who were randomly assigned to one of four treatment groups (*Diabetes*, 19 [supp. 2]:747-830, 1970).

UGDP reported that patients treated for 5 to 8 years with diet plus a fixed dose of tolbutamide (1.5 grams per day) had a rate of cardiovascular mortality approximately 2½ times that of patients treated with diet alone. A significant increase in total mortality was not observed, but the use of tolbutamide was discontinued based on the increase in cardiovascular mortality, thus limiting the opportunity for the study to show an increase in over-all mortality. Despite controversy regarding the interpretation of these results, the findings of the UGDP study provide an adequate basis for this warning. The patient should be informed of the potential risks and advantages of DIABINESE and of alternative modes of therapy.

Although only one drug in the sulfonylurea class (tolbutamide) was included in this study, it is prudent from a safety standpoint to consider that this warning may also apply to other oral hypoglycemic drugs in this class, in view of their close similarities in mode of action and chemical structure.

PRECAUTIONS

General

Macrovascular Outcomes: There have been no clinical studies establishing conclusive evidence of macrovascular risk reduction with DIABINESE or any other anti-diabetic drug.

Hypoglycemia: All sulfonylurea drugs including chlorpropamide are capable of producing severe hypoglycemia, which may result in coma, and may require hospitalization. Patients experiencing hypoglycemia should be managed with appropriate glucose therapy and be monitored for a minimum of 24 to 48 hours (see Overdosage section). Proper patient selection, dosage, and instructions are important to avoid hypoglycemic episodes. Regular, timely carbohydrate intake is important to avoid hypoglycemic events occurring when a meal is delayed or insufficient food is eaten or carbohydrate intake is unbalanced. Renal or hepatic insufficiency may affect the disposition of DIABINESE and may also diminish gluconeogenic capacity, both of which increase the risk of serious hypoglycemic reactions. Elderly, debilitated or malnourished patients, and those with adrenal or pituitary insufficiency are particularly susceptible to the hypoglycemic action of glucose-lowering drugs. Hypoglycemia may be difficult to recognize in the elderly, and in people who are taking beta-adrenergic blocking drugs. Hypoglycemia is more likely to occur when caloric intake is deficient, after severe or prolonged exercise, when alcohol is ingested, or when more than one glucose-lowering drug is used.

Because of the long half-life of chlorpropamide, patients who become hypoglycemic during therapy require careful supervision of the dose and frequent feedings for at least 3 to 5 days. Hospitalization and intravenous glucose may be necessary.

Loss of control of blood glucose: When a patient stabilized on any diabetic regimen is exposed to stress such as fever, trauma, infection, or surgery, a loss of control may occur. At such times, it may be necessary to discontinue DIABINESE and administer insulin.

The effectiveness of any oral hypoglycemic drug, including DIABINESE, in lowering blood glucose to a desired level decreases in many patients over a period of time, which may be due to progression of the severity of the diabetes or to diminished responsiveness to the drug. This phenomenon is known as secondary failure, to distinguish it from primary failure in which the drug is ineffective in an individual patient when first given. Adequate adjustment of dose and adherence to diet should be assessed before classifying a patient as a secondary failure.

Hemolytic Anemia: Treatment of patients with glucose 6-phosphate dehydrogenase (G6PD) deficiency with sulfonylurea agents can lead to hemolytic anemia. Because DIABINESE belongs to the class of sulfonylurea agents, caution should be used in patients with G6PD deficiency and a non-sulfonylurea alternative should be considered. In post marketing reports, hemolytic anemia has also been reported in patients who did not have known G6PD deficiency.

Geriatric Use

The safety and effectiveness of DIABINESE in patients aged 65 and over has not been properly evaluated in clinical studies. Adverse event reporting suggests that elderly patients may be more prone to developing hypoglycemia and/or hyponatremia when using DIABINESE. Although the underlying mechanisms are unknown, abnormal renal function, drug interaction and poor nutrition appear to contribute to these events.

INFORMATION FOR PATIENTS

Patients should be informed of the potential risks and advantages of DIABINESE and of alternative modes of therapy. They should also be informed about the importance of adherence to dietary instructions, of a regular exercise program, and of regular testing of blood glucose.

The risks of hypoglycemia, its symptoms and treatment, and conditions that predispose to its development should be explained to patients and responsible family members. Primary and secondary failure should also be explained.

Patients should be instructed to contact their physician promptly if they experience symptoms of hypoglycemia or other adverse reactions.

Physician Counseling Information for Patients:

In initiating treatment for type 2 diabetes, diet should be emphasized as the primary form of treatment. Caloric restriction and weight loss are essential in the obese diabetic patient. Proper dietary management alone may be effective in controlling the blood glucose and symptoms of hyperglycemia. The importance of regular physical activity should also be stressed, and

cardiovascular risk factors should be identified and corrective measures taken where possible. Use of DIABINESE or other antidiabetic medications must be viewed by both the physician and patient as a treatment in addition to diet and not as a substitution or as a convenient mechanism for avoiding dietary restraint. Furthermore, loss of blood glucose control on diet alone may be transient, thus requiring only short-term administration of DIABINESE or other antidiabetic medications. Maintenance or discontinuation of DIABINESE or other antidiabetic medications should be based on clinical judgment using regular clinical and laboratory evaluations.

LABORATORY TESTS

Blood glucose should be monitored periodically. Measurement of glycosylated hemoglobin should be performed and goals assessed by the current standard of care.

DRUG INTERACTIONS

The following products can lead to hypoglycemia:

The hypoglycemic action of sulfonylurea may be potentiated by certain drugs including nonsteroidal anti-inflammatory agents and other drugs that are highly protein bound, salicylates, sulfonamides, chloramphenicol, probenecid, coumarins, monoamine oxidase inhibitors, and beta adrenergic blocking agents. When such drugs are administered to a patient receiving DIABINESE, the patient should be observed closely for hypoglycemia. When such drugs are withdrawn from a patient receiving DIABINESE, the patient should be observed closely for hypoglycemia.

Miconazole: A potential interaction between oral miconazole and oral hypoglycemic agents leading to severe hypoglycemia has been reported. Whether this interaction also occurs with intravenous, topical, or vaginal preparations of miconazole is not known.

Alcohol: In some patients, a disulfiram-like reaction may be produced by the ingestion of alcohol. Moderate to large amounts of alcohol may increase the risk of hypoglycemia (ref.1), (ref. 2).

The following products can lead to hyperglycemia:

Certain drugs tend to produce hyperglycemia and may lead to loss of control. These drugs include the thiazides and other diuretics, corticosteroids, phenothiazines, thyroid products, estrogens, oral contraceptives, phenytoin, nicotinic acid, sympathomimetics, calcium channel blocking drugs, and isoniazid.

When such drugs are administered to a patient receiving DIABINESE, the patient should be closely observed for loss of control. When such drugs are withdrawn from a patient receiving DIABINESE, the patient should be observed closely for hypoglycemia.

Since animal studies suggest that the action of barbiturates may be prolonged by therapy with chlorpropamide, barbiturates should be employed with caution.

Carcinogenesis, Mutagenesis, Impairment of Fertility: Studies with DIABINESE have not been conducted to evaluate carcinogenic or mutagenic potential.

Rats treated with continuous DIABINESE therapy for 6 to 12 months showed varying degrees of suppression of spermatogenesis at a dose level of 250 mg/kg (five times the human dose based on body surface area). The extent of suppression seemed to follow that of growth retardation associated with chronic administration of high-dose DIABINESE in rats. The human dose of chlorpropamide is 500 mg/day (300 mg/M^2). Six- and 12-month toxicity work in the dog and rat, respectively, indicates the 150 mg/kg is well tolerated. Therefore, the safety margins based upon body-surface-area comparisons are three times human exposure in the rat and 10 times human exposure in the dog.

Pregnancy

Teratogenic Effects:

Pregnancy Category C. Animal reproductive studies have not been conducted with DIABINESE. It is also not known whether DIABINESE can cause fetal harm when administered to a pregnant woman or can affect reproduction capacity. DIABINESE should be given to a pregnant woman only if the potential benefits justify the potential risk to the patient and fetus.

Because data suggest that abnormal blood glucose levels during pregnancy are associated with a higher incidence of congenital abnormalities, many experts recommend that insulin be used during pregnancy to maintain blood glucose levels as close to normal as possible.

Nonteratogenic Effects:

Prolonged severe hypoglycemia (4 to 10 days) has been reported in neonates born to mothers who were receiving a sulfonylurea drug at the time of delivery. This has been reported more frequently with the use of agents with prolonged half-lives. If DIABINESE is used during pregnancy, it should be discontinued at least one month before the expected delivery date and other therapies instituted to maintain blood glucose levels as close to normal as possible.

Nursing Mothers: An analysis of a composite of two samples of human breast milk, each taken five hours after ingestion of 500 mg of chlorpropamide by a patient, revealed a concentration of 5 mcg/mL. For reference, the normal peak blood level of chlorpropamide after a single 250 mg dose is 30 mcg/mL. Therefore, it is not recommended that a woman breast feed while taking this medication.

Use in Children: Safety and effectiveness in children have not been established.

Ability to Drive and Use Machines: The effect of DIABINESE on the ability to drive or operate machinery has not been studied. However, there is no evidence to suggest that DIABINESE may affect these abilities. Patients should be aware of the symptoms of hypoglycemia and take caution while driving and operating machinery.

ADVERSE REACTIONS

Body as a Whole: Disulfiram-like reactions have rarely been reported with DIABINESE (see DRUG INTERACTIONS).

Central and Peripheral Nervous System: Dizziness and headache. .

Hypoglycemia: See PRECAUTIONS and OVERDOSAGE sections.

Gastrointestinal: Gastrointestinal disturbances are the most common reactions; nausea has been reported in less than 5% of patients, and diarrhea, vomiting, anorexia, and hunger in less than 2%. Other gastrointestinal disturbances have occurred in less than 1% of patients including proctocolitis. They tend to be dose-related and may disappear when dosage is reduced.

Liver/Biliary: Cholestatic jaundice may occur rarely; DIABINESE should be discontinued if this occurs. Hepatic porphyria and disulfiram-like reactions have been reported with DIABINESE.

Skin/Appendages: Pruritus has been reported in less than 3% of patients. Other allergic skin reactions, e.g., urticaria and maculopapular eruptions have been reported in approximately 1% or less of patients. These may be transient and may disappear despite continued use of DIABINESE; if skin reactions persist the drug should be discontinued.

As with other sulfonylureas, porphyria cutanea tarda and photosensitivity reactions have been reported.

Skin eruptions rarely progressing to erythema multiforme and exfoliative dermatitis have also been reported.

Hematologic Reactions: Leukopenia, agranulocytosis, thrombocytopenia, hemolytic anemia (see **PRECAUTIONS**), aplastic anemia, pancytopenia, and eosinophilia have been reported with sulfonylureas.

Metabolic/Nutritional Reactions: Hypoglycemia (see PRECAUTIONS and OVERDOSAGE sections). Hepatic porphyria and disulfiram-like reactions have been reported with DIABINESE. See DRUG INTERACTIONS section.

Endocrine Reactions: On rare occasions, chlorpropamide has caused a reaction identical to the syndrome of inappropriate antidiuretic hormone (ADH) secretion. The features of this syndrome

result from excessive water retention and include hyponatremia, low serum osmolality, and high urine osmolality. This reaction has also been reported for other sulfonylureas.

OVERDOSAGE

Overdosage of sulfonylureas including DIABINESE can produce hypoglycemia. Mild hypoglycemic symptoms without loss of consciousness or neurologic findings should be treated aggressively with oral glucose and adjustments in drug dosage and/or meal patterns. Close monitoring should continue until the physician is assured that the patient is out of danger. Severe hypoglycemic reactions with coma, seizure, or other neurological impairment occur infrequently, but constitute medical emergencies requiring immediate hospitalization. If hypoglycemic coma is diagnosed or suspected, the patient should be given a rapid intravenous injection of concentrated (50%) glucose solution. This should be followed by a continuous infusion of a more dilute (10%) glucose solution at a rate that will maintain the blood glucose at a level above 100 mg/dL. Patients should be closely monitored for a minimum of 24 to 48 hours since hypoglycemia may recur after apparent clinical recovery.

DOSAGE AND ADMINISTRATION

There is no fixed dosage regimen for the management of type 2 diabetes with DIABINESE or any other hypoglycemic agent. The patient's blood glucose must be monitored periodically to determine the minimum effective dose for the patient; to detect primary failure, i.e., inadequate lowering of blood glucose at the maximum recommended dose of medication; and to detect secondary failure, i.e., loss of an adequate blood glucose lowering response after an initial period of effectiveness. Glycosylated hemoglobin levels may also be of value in monitoring the patient's response to therapy.

Short-term administration of DIABINESE may be sufficient during periods of transient loss of control in patients usually controlled well on diet.

The total daily dosage is generally taken at a single time each morning with breakfast. Occasionally cases of gastrointestinal intolerance may be relieved by dividing the daily dosage. A LOADING OR PRIMING DOSE IS NOT NECESSARY AND SHOULD NOT BE USED.

Initial Therapy: 1. The mild to moderately severe, middle-aged, stable type 2 diabetes patient should be started on 250 mg daily. In elderly patients, debilitated or malnourished patients, and patients with impaired renal or hepatic function, the initial and maintenance dosing should be conservative to avoid hypoglycemic reactions (see PRECAUTIONS section). Older patients should be started on smaller amounts of DIABINESE, in the range of 100 to 125 mg daily.

2. No transition period is necessary when transferring patients from other oral hypoglycemic agents to DIABINESE. The other agent may be discontinued abruptly and chlorpropamide started at once. In prescribing chlorpropamide, due consideration must be given to its greater potency.

Many mild to moderately severe, middle-aged, stable type 2 diabetes patients receiving insulin can be placed directly on the oral drug and their insulin abruptly discontinued. For patients requiring more than 40 units of insulin daily, therapy with DIABINESE may be initiated with a 50 per cent reduction in insulin for the first few days, with subsequent further reductions dependent upon the response.

During the initial period of therapy with chlorpropamide, hypoglycemic reactions may occasionally occur, particularly during the transition from insulin to the oral drug. Hypoglycemia within 24 hours after withdrawal of the intermediate or long-acting types of insulin will usually prove to be the result of insulin carry-over and not primarily due to the effect of chlorpropamide.

During the insulin withdrawal period, the patient should self-monitor glucose levels at least three times daily. If they are abnormal, the physician should be notified immediately. In some cases, it may be advisable to consider hospitalization during the transition period.

Five to seven days after the initial therapy, the blood level of chlorpropamide reaches a plateau. Dosage may subsequently be adjusted upward or downward by increments of not more than 50 to 125 mg at intervals of three to five days to obtain optimal control. More frequent adjustments are usually undesirable.

Maintenance Therapy: Most moderately severe, middle-aged, stable type 2 diabetes patients are controlled by approximately 250 mg daily. Many investigators have found that some milder diabetics do well on daily doses of 100 mg or less. Many of the more severe diabetics may require 500 mg daily for adequate control. PATIENTS WHO DO NOT RESPOND COMPLETELY TO 500 MG DAILY WILL USUALLY NOT RESPOND TO HIGHER DOSES. MAINTENANCE DOSES ABOVE 750 mg DAILY SHOULD BE AVOIDED.

| HOW SUPPLIED | | | | | |
|--|------------------------------|----------------|--------------|-----------------|--|
| Strength | Tablet Description | Tablet Code | NDC | Package Size | |
| DIABINESE (chlorpro- pamide) 100 mg | Blue, D-shaped, scored | 393 | 0069-3930-66 | 100's | |
| DIABINESE (chlorpro- | Blue, D-shaped, | 394 | 0069-3940-66 | 100's | |
| pamide) 250 mg | scored | | 0069-3940-82 | 1000's | |

RECOMMENDED STORAGE: Store below 86°F (30°C).

Rx only



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Pfizer Labs Division of Pfizer Inc, NY, NY 10017

LAB-0039-<u>5.0</u>3.3 Revised <u>FebruarySeptember</u> 200<u>9</u>8

CENTER FOR DRUG EVALUATION AND RESEARCH

APPLICATION NUMBER: 11-641/s065

OTHER REVIEW(S)

Division of Metabolism and Endocrinology Products

REGULATORY PROJECT MANAGER REVIEW

Application Number: NDA 11-641/S-065

Name of Drug: Diabinese (chlorpropamide) Tablets

Applicant: Pharmacia & Upjohn Company

Material Reviewed:

| Submission Date March 4, 2009 | <u>Receipt Date</u> March 4, 2009 | <u>Document Type</u> Proposed Package Insert (PI) |
|----------------------------------|--------------------------------------|--|
| April 9, 2009 | April 9, 2009 | Revised Proposed PI |
| Material Referenced: | | |
| Date Finalized | Document Type | |

Date Finalized October 27, 2008 January 15, 2009 Document Type PI Attached to Approval Letter for 11-641/S-064 Supplement Request Letter

Background and Summary

NDA 11-641 for Diabinese Tablets was approved on October 28, 1958. Diabinese is indicated as an adjunct to diet and exercise to improve glycemic control in adults with type 2 diabetes mellitus.

Supplement 065 was submitted on March 4, 2009, as a "Changes Being Effected (CBE)" supplement to revise the PI in response to a labeling supplement request letter from the Division issued on January 15, 2009. The supplement request letter, issued to all sponsors of sulfonylurea drugs, asked for the following update to the Package Insert:

Add the following sub-section under **PRECAUTIONS**:

Hemolytic Anemia: Treatment of patients with glucose 6-phosphate dehydrogenase (G6DP) deficiency with sulfonylurea agents can lead to hemolytic anemia. Because DRUG NAME belongs to the class of sulfonylurea agents, caution should be used in patients with G6PD deficiency and a non-sulfonylurea alternative should be considered. In postmarketing reports, hemolytic anemia has also been reported in patients who did not have known G6PD deficiency.

The Sponsor submitted revised labeling on April 9, 2009, after receiving additional comments from the Division.

Review

The PI submitted on April 9, 2009, was compared to the currently approved PI, approved on October 27, 2008. The following changes have been made:

PRECAUTIONS

• The following language was added, under the "General" subsection:

Hemolytic Anemia: Treatment of patients with glucose 6-phosphate dehydrogenase (G6DP) deficiency with sulfonylurea agents can lead to hemolytic anemia. Because DIABINESE belongs to the class of sulfonylurea agents, caution should be used in patients with G6PD deficiency and a non-sulfonylurea alternative should be considered. In postmarketing reports, hemolytic anemia has also been reported in patients who did not have known G6PD deficiency.

Note: This change was requested in the supplement request letter.

ADVERSE REACTIONS

• The following text, shown here underlined, was added under the "Hemotologic Reactions" subsection

Leukopenia, agranulocytosis, thrombocytopenia, hemolytic anemia (see <u>PRECAUTIONS</u>), aplastic anemia, pancytopenia, and eosinophilia have been reported with sulfonylureas.

Note: This change is acceptable.

End of PI

• The identifying information at the end of the PI was changed from:

LAB-0039-3.3 September 2008

To:

LAB-0039-5.0 Revised February 2009 Note: This change is acceptable.

Conclusion

An approval letter will issue for NDA 11-641/S-065. Content of labeling in SPL format will be requested in the approval letter.

Reviewed by: Julie Marchick Regulatory Project Manager

Supervisory concurrence: Lina AlJuburi Chief, Project Management Staff

Drafted: JM/5.12.09 Finalized: JM/8.27.09

•

This is a representation of an electronic record that was signed electronically and this page is the manifestation of the electronic signature.

/s/

JULIE C MARCHICK 08/27/2009

CENTER FOR DRUG EVALUATION AND RESEARCH

APPLICATION NUMBER: 11-641/s065

ADMINISTRATIVE and CORRESPONDENCE DOCUMENTS



DEPARTMENT OF HEALTH & HUMAN SERVICES

Public Health Service

Food and Drug Administration Rockville, MD 20857

NDA 11-641/S-065

CBE-0 SUPPLEMENT

Pharmacia & Upjohn Company Attention: Kathleen Collins Manager, Worldwide Regulatory Strategy 235 East 42nd Street New York, NY 10017

Dear Ms. Collins:

We have received your supplemental drug application submitted under section 505(b) of the Federal Food, Drug, and Cosmetic Act for the following:

| Name of Drug Product: | Diabinese (chlorpropamide) Tablets |
|-----------------------|------------------------------------|
| NDA Number: | 11-641 |
| Supplement Number: | S-065 |
| Date of Supplement: | March 4, 2009 |
| Date of Receipt: | March 4, 2009 |

This supplemental application, submitted as "Supplement - Changes Being Effected" provides for the addition of a statement regarding hemolytic anemia under the PRECAUTIONS section of the Package Insert. This change was requested in a supplement request letter dated January 15, 2009.

Unless we notify you within 60 days of the receipt date that the application is not sufficiently complete to permit a substantive review, we will file the application on May 3, 2009, in accordance with 21 CFR 314.101(a). If the application is filed, the user fee goal date will be **September 4, 2009**.

Please cite the application number listed above at the top of the first page of all submissions to this application. Send all submissions, electronic or paper, including those sent by overnight mail or courier, to the following address:

Food and Drug Administration Center for Drug Evaluation and Research Division of Metabolism and Endocrinology Products 5901-B Ammendale Road Beltsville, MD 20705-1266 NDA 11-641/S-065 Page 2

If you have questions, please call me at (301) 796-1280.

Sincerely,

{See appended electronic signature page}

Julie Marchick, MPH Regulatory Project Manager Division of Metabolism and Endocrinology Products Office of Drug Evaluation II Center for Drug Evaluation and Research This is a representation of an electronic record that was signed electronically and this page is the manifestation of the electronic signature.

/s/ Julie Marchick 3/9/2009 11:42:47 AM