Two Firms Shelve Dual-Action Diabetes Drugs

ADVERSE REACTIONS Clinical

BY MIRIAM E. TUCKER

Senior Writer

he future of dual α-/ γ -peroxisome proliferator-activated receptor agonists may be in question now that development has been halted on two such agents after the completion of phase III trials.

In early May, AstraZeneca announced the discontinuation of tesaglitazar (Galida), its dual α -/ γ -peroxisome proliferator—activated receptor (PPAR) agonist. Phase III data suggested elevations in serum creatinine and a decrease in glomerular filtration rate, effects previously associated with the PPAR-α agonist (fibrate) portion of the molecule. Two weeks later, Bristol-Myers Squibb said it was halting development of muraglitazar (Pargluva).

The action followed the Food and Drug Administration's request for additional long-term data to clarify the agent's cardiovascular risk profile.

The specific reasons for the decisions differed, but both reflect the difficulty associated with developing agents that maximize the glucose-lowering effect without increasing the risk for side effects, according to Dr. John B. Buse, the American Diabetes Association's vice president for medicine and science and director of the Diabetes Care Center at the University of North Carolina, Chapel

"I think the FDA got it right. What the

Clinical
Worldwide, over 10,000 patients have been treated with lansoprazole in Phase 2-3 clinical trials involving various dosages and durations of treatment. The adverse reaction profiles for PREVACIO Delayed-Release Capsules and PREVACIO for Delayed-Release Oral Suspension es similar. In general, ansoprazole treatment has been well-foldered in both short-term and long-term trials.

The following adverse events were reported by the treating physician to have a possible or probable relationship to drug in 1% or more of PREVACIO-treated patients han placebo-treated patients.

Incidence of Possibly or Probably
Treatment-Related Adverse Events in Short-Term, Placebo-Controlled Studies

PREVACIO
Placebo
Na-276a) (N-1023)

Natisea 1.23 | 1.23 | 1.24 | 1.24 | 1.24 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1

(N= 2768)

2.1

(N= 1023)

world needs is not a stronger diabetes drug, but a safer one," he said. Indeed, for lowering glucose levels,

tesaglitazar and muraglitazar were at least as good as the currently marketed agents pioglitazone (Takeda's Actos) and rosiglitazone (GlaxoSmithKline's Avandia).

However, increased doses of pioglitazone and rosiglitazone are often associated with significant weight gain and edema without much further improvement in lowering glucose, compared with the more moderate doses, Dr. Buse pointed out.

Given that pioglitazone, which also has

PPAR-agonist drugs face substantial challenges for successful development unless their efficacy rivals that of the current glitazones.

a lipid-lowering effect, may become generic in 2011, Dr. Buse commented that new PPARagonist drugs face substantial challenges for successful development unless their efficacy rivals that of the current glitazones and their safety and

tolerance are superior.

Such a drug could particularly benefit the 25% of insulin-requiring type 2 diabetic patients with contraindications or inability to tolerate rosiglitazone or piogli-

We have good drugs. What we need are better tolerated drugs," he said.

Dr. Buse has no current financial ties to AstraZeneca, Bristol-Myers Squibb, Glaxo-SmithKline, or Takeda.

FDA Recalls Contaminated **Insulin Syringes**

The Food and Drug Administration has announced the recall of Closercare insulin syringes and the extension of an earlier recall of Ultilet insulin syringes due to bacterial contamination with Paenibacillus.

The recall includes Closercare insulin syringe 29g 1cc with lot number 5JCZ1 as displayed on the inner case.

The recall also includes Ultilet insulin syringe 30g 1/2 cc with product lot number

5KEO1. Patients with products from these lots

should stop use and return the syringes to the manufacturer.

This bacterial contamination presents a risk of local infection, as well as a risk of the introduction of contaminating organisms into a previously sterile vial.

Moreover, the introduced contamination may degrade the insulin, which could lead to problems maintaining in-

For more information, contact Boca Medical Products Inc. by calling 800-354-

Brief Summary of Prescribing Information (Nos. 1541, 1543, 1544, 3046, 7309, 7311) 03-5366-R24-Brf. Rev. July, 2004

PREVACID® (lansoprazole) Delayed-Release Capsules

PREVACIO® (lansoprazole) For Delayed-Release Oral Suspension

 $\textbf{PREVACID} @ \textbf{SoluTab}^{\textbf{TM}} \text{ (lansoprazole) Delayed-Release Orally}$

DISINITEGRATURY

RX ONLY

PREVACIO Delayed-Release Capsules, PREVACIO SoluTab Delayed-Release Orally

Disintegrating Tablets and PREVACIO For Delayed-Release Oral Suspension are indicated

ort-Term Treatment (4 weeks) of Active Duodenal Ulcer pylori Eradication to Reduce the Risk of Duodenal Ulcer Recurrence

H. pylori Eradication to Reduce the Risk of Duodenal Ulcer Recurrence
Triple Therapy: PREVACID/amoxicillin/clainthromycin
Dual Therapy: PREVACID/amoxicillin/clainthromycin
Dual Therapy: PREVACID/amoxicillin
Who are either allergic or intolerant to clarithromycin or in whom resistance to
clarithromycin is known or suspected.

Maintenance of Healed Duodenal Ulcers
Controlled studies do not extend beyond 12 months.

Short-Term Treatment (up to 8 weeks) of Active Benign Gastric Ulcer
Healing of NSAID-Associated Gastric Ulcer
In patients who continue NSAID use. Controlled studies did not extend beyond 8 weeks.
Risk Reduction of NSAID-Associated Gastric Ulcer
In patients with a history of a documented gastric ulcer who require the use of an NSAID.
Controlled studies did not extend beyond 12 weeks.
Gastroesophageal Reflux Disease (GERD)
Short-Term Treatment (up to 8 weeks) of Erosive Esophaoitis

Construction Springer Internation Sease (LUC) of Erosive Esophagitis
Short-Term Treatment (pro 8 weeks) of Erosive Esophagitis
For patients who do not heal with PREVACID for 8 weeks (5-10%), it may be helpful to give
an additional 8 weeks of treatment. If there is a recurrence of erosive esophagitis an
additional 8-week course of PREVACID may be considered.

Maintenance of Healing of Erosive Esophagitis
Controlled studies did not extend beyond 12 months.

Pathological Hypersecretory Conditions Including Zollinger-Ellison Syndrome
CONTRAINING ATOMS

the formulation of PREVACID.

Amoxicillin is contraindicated in patients with a known hypersensitivity to any penicillin. Clarithromycin is contraindicated in patients with a known hypersensitivity to darrithromycin, eythoropycin, and any of the macrolide antibiotics.

Concomitant administration of clarithromycin with cisapride, pimozide, astemizole, or terfenadine is contraindicated. There have been post-marketing reports of drug interactions when clarithromycin and/or eythoromycin are doministered with cisapride, primozide, astemizole, or terfenadine resulting in cardiac arrhythmias (QT prolongation, ventricular atchycardia, ventricular fibrillation, and torsades de pointes) most likely due to inhibition of metabolism of these drugs by erythromycin and clarithromycin. Fatalities have been reported.

WARNINGS
CLARITHROMYCIN SHOULD NOT BE USED IN PREGNANT WOMEN EXCEPT IN CLINICAL CIRCUMSTANCES WHERE NO ALTERNATIVE THERAPY IS APPROPRIATE. IF PREGNANCY OCCURS WHILE TAKING CLARITHROMYCIN, THE PATIENT SHOULD BE APPRISED OF THE POTENTIAL HAZARD TO THE FETUS. (SEE WARNINGS IN PRESCRIBING INFORMATION FOR CLARITHROMYCIN.)
PSEUDomembraous collist has been reported with nearly all antibacterial agents, including clarithromycin and amoxicillin, and may range in severity from mild to life threatening. Therefore, it is important to consider this diagnosis in patients who present with diarrhea subsequent to the administration of antibacterial agents. Treatment with antibacterial agents alters the normal flora of the colon and may permit overgrowth of clostridia. Studies indicate that a toxin produced by Clostridium difficile is a primary cause of 'antibiotic-associated collis."

overgrowth of clostridia. Studies indicate that a toxin produced by Clostridium difficile is a primary cause of "artibiotic-associated collists." After the diagnosis of pseudomembranous collist has been established, therapeutic measures should be initiated. Mild cases of pseudomembranous collist issually respond to discontinuation of the drug alone. In moderate to severe cases, consideration should be given to management with fluids and electrolytes, protein supplementation, and treatment with an antibacterial drug clinically effective against. Clostridium difficile collists. Serious and occasionally fatal hypersensitivity (anaphylactic) reactions have been reported in patients on penicilliin hypersensitivity and/or a history of sensitivity to multiple allergens. There have been well-documented reports of individuals with a history of penicilliin hypersensitivity reactions who have experienced severe hypersensitivity reactions when treated with a caphalosporine. Before initiating therapy with any penicilliin, careful initiary should be made concerning previous hypersensitivity reactions to penicilliin should be caphalosporine. Bergers If an allergic reaction occurs, amoxicilliin should be discontinued and the appropriate therapy instituted.

SERIOUS ANAPYL ACTIC REACTIONS REQUIRE IMMEDIATE EMERGENCY TREATMENT WITH EPINEPHRINE. DXYGEN, INTRAVENOUS STEROIDS, AND AIRWAY MANAGEMENT, INCLUDING INTUBATION, SHOULD ALSO BE ADMINISTERED AS INDICATED.

PRECAUTIONS

General Symptomatic response to therapy with lansoprazole does not preclude the presence of gastric malignancy. Information for Patients
PREVACID is available as a capsule, orally disintegrating tablet and oral suspension, and is available in 15 mg and 30 mg strengths. Directions for use specific to the route and available methods of administration for each of these dosage forms is presented below. PREVACID should be taken before eating. PREVACID products SHOULD NOT BE CRUSHED OR CHEWED.

Phenylketonurics: Contains Phenylalanine 2.5 mg per 15 mg Tablet and 5.1 mg per 30 mg Tablet.

10 mg Tablet. Udministration Options 1. PREVACID Delayed-Release Capsules PREVACID Delayed-Release Capsules should be swallowed whole.

Alternatively, for patients who have difficulty swallowing capsules, PREVACID Delayed-Release Capsules can be opened and administered as follows: agusule.

le intact granules on one tablespoon of either applesauce, ENSURE® pudding, e cheese, yogurt or strained pears.

ripple juice, orange juice or unmany juice and some common of come capsule.

Sprinkle intact granules into a small volume of either apple juice, orange juice or tomato juice (60 mL – approximately 2 ounces).

Mix briefly.

Swallow immediately.

Swallow immediately,

 To ensure complete delivery of the dose, the glass should be rinsed with two or more volumes of juice and the contents swallowed immediately.
 USE IN OTHER FOODS AND LIQUIDS HAS NOT BEEN STUDIED CLINICALLY AND IS THEREFORE NOT RECOMMENDED.

PREVACID SoluTab Delayed-Release Orally Disintegrating Tablets

PREVACID Solutab should not be chewed. Place the tablet on the tongue and allow it to disintegrate, with or without water, until the particles can be swallowed. The tablet typically disintegrates in less than 1 minute.

disintegrates in less than 1 minute.

Alternatively, for children or other patients who have difficulty swallowing tablets, PREVACID SoluTab can be delivered in two different ways.

PREVACID SoluTab can be delivered in two different ways.

PREVACID SoluTab can be delivered in two different ways.

PREVACID SoluTab or Oral Syringe.

For administration via oral syringe, PREVACID SoluTab can be administered as follows:

Place a 15 mg tablet in oral syringe and draw up approximately 10 mL of water, or place a 30 mg tablet in oral syringe and draw up approximately 10 mL of water.

Shake pently to allow for a quick dispersal.

After the tablet has dispersed, administer the contents within 15 minutes.

Refill the syringe with approximately 2 mL (5 mL for the 30 mg tablet) of water, shake gently, and administer any remaining contents.

PREVACID SoluTab – Nasogastric Tube Administration (≥ 8 French)
For administration via a nasogastric tube, PREVACID SoluTab can be administered as

iows: lace a 15 mg tablet in a syringe and draw up 4 mL of water, or place a 30 mg tablet in a yringe and draw up 10 mL of water.

syringe and draw up to flict owners.

Shake gently to allow for a quick dispersal.

After the tablet has dispersed, inject through the nasogastric tube into the stomach within

The minutes.

Refill the syringe with approximately 5 mL of water, shake gently, and flush the nasogastric

• If any material remains after drinking, add more water, stir, and drink immediately.

• This product should not be given through enteral administration tubes.

Drug Interactions

Lansoprazole is metabolized through the cytochrome P₄₅₀ system, specifically through the CYP2A3 and CYP2C19 isozymes. Studies have shown that lansoprazole does not have clinically significant interactions with other drugs metabolized by the cytochrome P₄₅₀ system, such as warfarin, antipyrine, indomethacin, ibuprofen, phenytoin, propranolol, prednisone, diazepam, or clarithromycin in healthy subjects. These compounds are metabolized through various cytochrome P₄₄₀ isozymes including CYP1A2, CYP2C9, CYP2C13, CYP2C9, CYP2C13, CYP2C9, and CYP3A, when lansoprazole was administered concomitantly theophylline (CYP1A2, CYP3A), a minor increase (10%) in the clearance of theophylline was seen. Because of the small magnitude and the direction of the effect on theophylline was seen. Because of the small magnitude and the direction of the effect on theophylline was seared or stopped to ensure clinically effective blood levels.

In a study of healthy subjects neither the pharmacokinetics of warfarin enantiomers no rothrombin time were affected following single or multiple 60 mg doses of lansoprazole. Advarfarin concomitantly. Increases in INR and prothrombin time may lead to abnormal bleeding and even death. Patients treated with proton pump inhibitors, including lansoprazole, and warfarin concomitantly. Increases in INR and prothrombin time may lead to abnormal eleeding and even death. Patients treated with proton pump inhibitors am awarfarin concomitantly with seclarically significant interaction with amoxicillin. In a single-dose crossover study examining lansoprazole 30 mg and omeprazole 20 mg gada diministered alone and concomitantly with succidate. Therefore, proton pump inhibitors was delayed and their bioavailability was reduced by 17% and 16%, espectively, when administered concomitantly with succidate. Therefore, proton pump inhib

ampicillin esters, iron salts, digonain.

Carcinogenesis, Mutagenesis, Impainent of Fertility.

Carcinogenesis, Mutagenesis, Impainent of Fertility.

Carcinogenesis, Mutagenesis, Impainent of Fertility in two 24-month carcinogenicity studies. Sprague-Dawley rats were treated orally with doses of 5 to 150 mg/kg/day, about 1 to 40 times the exogoure on a body surface (mg/m²) basis, of a 50-kg person of a werage height (1.46 m² body surface area) given the recommended human dose of 30 mg/day (22.2 mg/m²). Lansoprazole produced doser-related gastric enterochromaffin-like (CEU) cell hyerpolasia and ECI cell carcinoids but male and female rats. It also increased the incidence of intestinal metaplasia of the gastric epithelium in hoth sexes. In male rats, lansoprazole produced a dose-related increased restriction in the second of the sea denomas in rats receiving doses of testicular interstitial cell adenomas. The incidence of these adenomas in rats receiving doses of 15 to 150 mg/kg/day (1.40 to 40 imset the recommended human dose based on body surface area) exceeded the low background incidence (range = 1.4 to 10%) for this strain of rat. Testicular interstitial cell adenoma also occurred in 1 of 30 rats treated with 50 mg/kg/day (1.30 times the recommended human dose based on body surface area) in a 1-year toxicity study.

In a 24-month accinogenicity study, CD-1 mice were treated orally with doses of 15 to

1-year toxicity study.

In a 24-month carcinogenicity study, CD-1 mice were treated orally with doses of 15 to 600 mg/kg/day, 2 to 80 times the recommended human dose based on body surface area. Lansoprazole produced a dose-related increased incidence of gastric ECL cell hyperplasia. It also produced a increased incidence of liver tumors (hepatocellular adenoma plus carcinoma). The tumor incidences in male mice treated with 300 and 600 mg/kg/day (40 to 80 times the recommended human dose based on body surface area) and female mice treated with 510 to 600 mg/kg/day (20 to 80 times the recommended human dose based on body surface area) exceeded the ranges of background incidences in historical controls for his strain of mice. Lansongrapid retarment produced adenoma of rete testis in male mice body surface area) exceeded the ranges of background incidences in nistorical controls for this strain of mice. Lansoprazole treatment produced adenoma of rete testis in male mice receiving 75 to 600 mg/kg/day (10 to 80 times the recommended human dose based on body surface area).

Lansoprazole was not genotoxic in the Ames test, the ex wivo rat hepatocyte unscheduled DMA synthesis. (IUDS) test, the in viwo mouse micronucleus test or the rat bone marrow cell chromosomal aberration test. It was positive in in vitro human lymphocyte chromosomal aberration sexue.

chromosomal aberration test. It was positive in *in vitro* human lymphocyte chromosomal aberration assay. Lansoprazole at oral doses up to 150 mg/kg/day (40 times the recommended human dose based on body surface area) was found to have no effect on fertility and reproductive performance of male and female rats.

Pregnancy Categoric Effects.

Pregnancy Category B

Lansoprazole
Teratology studies have been performed in pregnant rats at oral doses up to 150 mg/kg/day
(40 times the recommended human dose based on body surface area) and pregnant rabbits
at oral doses up to 30 mg/kg/day (16 times the recommended human dose based on body
surface area) and have revealed no evidence of impaired fertility or harm to the fetus due to
lansonarone.

drug, taking into account me importance of PREVACID have been established in pediatric patients 1 to Tywars of age for short-term treatment of symptomatic GERD and erosive esophagitis. Use of PREVACID in this population is supported by evidence from adequate and vell-controlled studies of PREVACID in adults with additional clinical, pharmacokinetin and pharmacodynamic studies performed in pediatric patients. The adverse events profile in pediatric patients is similar to that of adults. There were no adverse events reported in U.S. clinical studies that were not previously observed in adults. The safety and effectiveness of PREVACID in patients <1 year of age have not been established.

Jabellist II of 1 years of age
The safety of PREVACID Delayed-Release Capsules has been assessed in these
The safety of PREVACID Delayed-Release Capsules has been assessed in these
37 adolescent patients. Of the 87 adolescent patients with GERD, 6% (5/87) took PREVACID
for -G weeks, 93% (8/87) for 6-10 weeks, and 1% (1/87) for 5-10 weeks.
The most frequently reported (at least 3%) treatment-related advizement in these
patients were headache (7%), abdominal pain (5%), nausea (3%), and dizziness (3%),
freatment-related dizziness, reported in this package insert as occurring in 1% of adult
patients, was reported in this study by 3 adolescent patients with nonerosive GERD, who
had dizziness concurrently with other events (such as migraine, dyspnea, and vomitting).
Itse in Wannen

events:
Abnormal liver function tests, increased SGOT (AST), increased SGOT (ALT), increased GGTP, increased SGOT (ALT), increased GGTP, increased GGTP, increased GGTP, increased gother increased graphine, increased gestification of the properties of the propertie

Special Senses - speech disorder; Urogenital System - urinary retention.

Combination Therapy with Amoxicillin and Clarithromycin
in clinical trists using combination therapy with PREVACID plus amoxicillin and
clarithromycin, and PREVACID plus amoxicillin, no adverse reactions peculiar to these drug
combinations were observed. Adverse reactions that have occurred naive been limited to
those that had been previously reported with PREVACID, amoxicillin, or clarithromycin.
Triple Therapy. PREVACID/amoxicillin/clarithromycin
The most frequently reported adverse events for patients who received triple therapy for
14 days were diarrhea (7%), headachse (6%), and taste perversion (5%). There were no
statistically significant differences in the frequency of reported adverse events between
10- and 14-day triple therapy regimens. No treatment-emergent adverse events
observed at significantly higher rates with triple therapy than with any dual therapy regimen.
Dual Therapy. PREVACID/amoxicillin
The most frequently reported adverse events for patients who received triple.

Dual Therapy: PREVACID/amoxicillin The most frequently reported adverse events for patients who received PREVACID Ltd. plus amoxicillin Ltd. dual therapy were diarrhea (8%) and headache (7%). No treatment-emergent adverse events were observed at significantly higher rates with PREVACID Ltd. plus amoxicillin Ltd. dual therapy than with PREVACID alone. For more information on adverse reactions with amoxicillin or clarithromycin, refer to their package inserts, ADVERSE REACTIONS sections.

Laboratory Values
The following changes in laboratory parameters for lansoprazole were reported as adverse

and intellution were also reported.

In the placebo controlled studies, when SGOT (AST) and SGPT (ALT) were evaluated, 0.4% (41/2677) placebo patients and 0.4% (11/2677) lansoprazole patients had enzyme elevations greater than three times the upper limit of normal range at the final treatment visit. None of these lansoprazole patients reported jaundice at any time during the study.

In clinical trials using combination therapy with PREVACID plus amoxicillin, and carithromycin, and PREVACID plus amoxicillin, no increased laboratory abnormalities particular to these drug combinations were observed.

se urug comunications were observed. mation on laboratory value changes with amoxicillin or clarithromycin, refer inserts, **ADVERSE REACTIONS** section.

to their package inserts, AUVENDE REQUIRED.

OverBLOSAGE

Oral doses up to 5000 mg/kg in rats (approximately 1300 times the recommended human dose based on body surface area) and mine (about 675.7 times the recommended human dose based on body surface area) did not produce deaths or any clinical signs. Lansoprazole is not removed from the circulation by hemodialysis. In one reported case of overdose, the patient consumed 600 mg of lansoprazole with no adverse reaction. Distributed by
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Ref. 03-5366-R24 Rev. July, 2004

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MR030-0134

-Kerri Wachter