With Trust, Fearful Parents Will OK Child Shots

BY MIRIAM E. TUCKER

Senior Writer

WASHINGTON — Even parents who don't trust vaccines might let you vaccinate their children if they trust you.

That was the conclusion drawn from a survey of parents of 7,810 children aged 19-35 months from the 2001-2002 National Immunization Survey, conducted by Philip J. Smith, Ph.D., and his associates at the Centers for Disease Control

and Prevention's National Immunization Program, in Atlanta.

The majority of parents (77%) said they believed vaccines were safe and that their belief was influenced by their child's healthcare provider (physician, nurse, or other). However, 5.7% of parents reported believing that vaccines were not safe, with 2% saying they were not influenced by their child's healthcare provider and the 3.7% reporting that they were.

Another 17.2% said that they believed

influenced by a healthcare provider. This

group is of concern, because One thing we don't want to happen is that these parents' opinions migrate to the other side," Dr. Smith said at the annual meeting of the American Academy of Pediatrics.

Parents who were not influenced by a healthcare provider were significantly more likely to say that vaccines

vaccines were safe but their belief was not were not safe, compared with parents who were so influenced (10.4% vs. 4.6%).

> Somewhat surprising, however, were the up-to-date immunization rates among the children of the parents who believe that immunizations are not safe: 71.5% for those who said they were influenced by a healthcare provider, compared with just

55.8% of those who were not, a highly significant difference. "All this is pointing to the importance of a healthcare provider talking with the parent," Dr. Smith said.

Indeed, earlier this year the American Academy of Pediatrics published guidelines on how to respond to parental refusal of immunization for their children (Pediatrics 2005;115:1428-31). Among AAP's recommendations are to listen respectfully to what the parents have to say and not minimize their concerns. Be honest about the benefits and risks of immunization, correct any misconceptions or misinformation, and refer the parents to trusted sources such as the CDC's National Immunization Program page (www.cdc.gov/nip).

See Pro & Con on page 23.

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

 $\textbf{PREVACID}^{\circledR} \text{ (lansoprazole) Delayed-Release Capsules}$

PREVACID® (lansoprazole) For Delayed-Release Oral Suspension

PREVACID® SoluTabTM (lansoprazole) Delayed-Release Orally

rating Tablets

PREVACID Delayed-Release Capsules, PREVACID SoluTab Delayed-Release Orally Disintegrating Tablets and PREVACID For Delayed-Release Oral Suspension are indicated

for:

Short-Term Treatment (4 weeks) of Active Duodenal Ulcer

H. pylori Eradication to Reduce the Risk of Duodenal Ulcer Recurrence
Triple Therapy: PREVACID/amoxicillin/clarithromycin
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.

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 of Symptomato GERD)

Short-Term Treatment (up to 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 teratment. If there is a recurrence of erosive esophagitis an additional 8-week course of PREVACID may be considered.

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

t extend beyond 12 months.

story Conditions Including Zollinger-Ellison Syndrome

Pathological Hypersecretory Conditions Including Zollinger-Ellison Syndrome
CONTRAINDICATION
PREVACID is contraindicated in patients with known hypersensitivity to any component of
the formulation of PREVACID.
Amoxicillin is contraindicated in patients with a known hypersensitivity to any penicillin.
Clarithromycin eynthromycin, and any of the macroidie 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 erythromycin are co-administered with cisapride, pimozide,
astemizole, or terfenadine resulting in cardiac arritythrains (OT prolongation, ventricular
atchycardia, ventricular fibrillation, and torsades de pointes) most likely due to inhibition of
metabolism of these drugs by erythromycin and clarithromycin. Fatallities have been
reported.

Please refer to full prescribing information for amoxicillin and clarithromycin before

prescribing.)

WARNINGS

CLARITHROMYCIN SHOULD NOT BE USED IN PREGNANT WOMEN EXCEPT IN CLINICAL CIRCUMSTANCES WHERE NO ALTERNATIVE THERAPY IS APPROPRIATE. IF PREGNANCY OCCURS WHILE TAXING CLARITHROMYCIN, THE PATIENT SHOULD BE APPRISED OF THE POTENTIAL HAZARD TO THE FETUS. (SEE WARNINGS) IN PRESCRIBING INFORMATION FOR CLARITHROMYCIN.)

Pseudomembranous colitis has been reported with nearly all antibacterial apents including clarithromycin and amoxicillin, and may range in severity from mild for 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 colitis."

After the diagnosis of pseudomembranous colitis has been established, therapeutic measures should be initiated. Mild cases of pseudomembranous colitis usually 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 colitis. Serious and occasionally fatal hypersensitivity (anaphylactic) reactions have been reported in patients on penicillin therapy. These reactions are more apt to occur in individuals with a history of penicillin hypersensitivity reactions who have experienced severe hypersensitivity treactions when have experienced severe hypersensitivity reactions when treated with a cephalosporin. Before initiating therapy with any penicillin, careful inquiry should be made concerning previous hypersensitivity reactions when have experienced severe hyper

Information for Patients
PREVACID is available as a capsule, orally disintegrating tablet and oral suspension, and is available in a good available in the 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 products SHOULD NOT BE CRUSHED OR

30 mg Tablet.

Administration 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:

pen capsule.

prinkle intact granules on one tablespoon of either applesauce, ENSURE[®] pudding, ottage cheese, yogurt or strained pears.

wallow immediately. PREVACIO Delayed-Release Capsules may also be emptied into a small volume of either apple juice, orange juice or tomato juice and administered as follows:

• Open capsule.

Open 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.

THEREFORE NOT RECOMMENDED.

HEHEFORE NOT RECOMMENDED.

2. PREVACIO SoluTab Delayed-Release Orally Disintegrating Tablets
PREVACIO 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.

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

PREVAIOU Solutao can be gelivered in two offerent ways.

PREVAIOUS Dolutao Crait Description of the provided in the provided provided in the provided provided in the provided provided in the provided in the

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

Toll administrations was a inacceptance work.

Place a 15 mg tablet in a syringe and draw up 4 mL of water, or place a 30 mg tablet in a syringe and draw up 10 mL of water.

Shake gently to allow for a quick dispersal.

After the tablet has dispersed, inject through the nasogastric tube into the stomach within 15 minutes.

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

 PREVACID for Delayed-Release Oral Suspension
 REVACID for Delayed-Release Oral Suspension should be administered as follows: open packet.
To prepare a dose, empty the packet contents into a container containing 2 tablespoons of WATER. DO NOT USE OTHER LIQUIDS OR FOODS.

WATER, DU NOT USE OTHER ELECTION OF STATES.
Stir well, and finis immediately.
If any material remains after drinking, add more water, stir, and drink immediately.
This product should not be given through enteral administration tubes.

• Sit vell, and drink immediately.
• 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
In the product should not be given through enteral administration tubes.
Drug Interactions
Uniform the product should not be given through the cytochrome P₄₅₀ system, specifically through the CYP2A1 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, bluproflen, phenytoin, propranolor, predisione, diazepam, or clarithromycin in Healthy subjects. These compounds are metabolized through various cytochrome P₄₅₀ isozymes including CYP1A2, CYP2G9, CYP2C19, CYP2G9, and CYP3A. When lansoprazole was administered concomitantly with theophylline (darance, this interaction is unlikely to be of clinical concern. Nonetheless, individual patients may require additional titration of their theophylline dosage when lansoprazole is started or stopped to ensure clinically effective blood levels.
In a study of healthy subjects neither the pharmacokinetics of warfarin enantiomers nor prothrombin time were affected following single or multiple 60 mg doses of lansoprazole, and varfarin concomitantly increases in INR and prothrombin time may lead to abnormal bleeding and even death. Patients treated with proton pump inhibitors, and warfarin a single-dose crossover study examining lansoprazole 30 mg and omeprazole 20 mg each administred alone and concomitantly with sucrafate. In elinical triats, antacids were administred concomitantly with sucrafate. In elinical triats, antacids were administred concomitantly with sucrafate. In elinical triats, antacids were administred concomitantly with sucrafate. In elinical triats, antacids were administred concomitantly with Pace and porthrombin time.
Lansoprazole has also

chromosomal aberration test. It was pusitive in in the commended human dose barration assays.

Larisoprazion et 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: Teratogenic Effects.

Pregnancy: Category B

Lansopnazole 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

Clarithromycin See WARNINGS (above) and full prescribing information for clarithromycin before using in

pregnant women.
Mursing Möthers

Lansoprazole or its metabolites are excreted in the milk of rats. It is not known whether
Lansoprazole is excreted in human milk. Because many drugs are excreted in human milk,
because of the potential for serious adverse neactions in nursing infants from lansoprazole,
and because of the potential for sumorigenicity shown for lansoprazole in rat carcinogenicity
studies, a decision should be made whether to discontinue nursing or to discontinue the
drug, taking into account the importance of the drug to the mother.
Prediatric Use

The safety and effectiveness of PREVACID have been established in pediatric patients 1 to
17 years 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 well-controlled
studies of PREVACID in adults with additional clinical, pharmacokinetic,
and pharmacodynamic studies performed in pediatric patients. The adverse events reported in
pediatric patients is similar to that of adults. There were no adverse events reported in
Schicker Studies of PREVACID in adequate and well-controlled
PREVACID in pleatients of year of age have not been established.

10 11 years of age

The pediatric safety of PREVACID Delayed-Release Capsules has been assessed in
66 pediatric patients aged 1 to 11 years of age. Of the 66 patients with GERD 85% (56/66)
took PREVACID in pleaved-Release Capsules has been assessed in these
pediatric patients aged 1 to 11 years of age. Of the 66 patients with GERD 85% (56/66)
took PREVACID in pleaved-Release Capsules has been assessed in these
pediatric patients aged 1 to 11 years of age. Of the Second Sec

seen in males. **Use in Geriatric Patients** Ulcer healing rates in elderly patients are similar to those in a younger age group. The

incidence rates of adverse events and laboratory test abnormalities are also similar to those seen in younger patients. For elderly patients, dosage and administration of lansoprazole need not be altered for a particular indication.

ADVERSE REACTIONS
Clinical

Initiation (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 PREVACID Delayed-Release Capsules and PREVACID for Delayed-Release Oral Suspension as similar. In general, lansoprazole treatment has been well-cloterated 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 PREVACID-treated patients and occurred at a greater rate in PREVACID-treated patients. Incidence of Possibly or Probably

Treatment-Related Adverse Events in Short-Term, Placebo-Controlled Studies

Treatment-Related Adverse Events in Short-Term, Placebo-Controlled Studies			
	PREVACID	Placebo	_
	(N= 2768)	(N= 1023)	
lody System/Adverse Event	%	%	
lody as a Whole			_
Abdominal Pain	2.1	1.2	
igestive System			
Constipation	1.0	0.4	
Diarrhea	3.8	2.3	
Nausea	1.3	1.2	

Natusea 1.3 1.2

Headache was also seen at greater than 1% incidence but was more common on placebo. The incidence of diarrhea was similar between patients who received placebo and patients who received lansoprazole 5 mg and 30 mg, but higher in the patients who received lansoprazole 6 mg (2.9%, 1.4%, 4.2%, and 7.4%, respectively). The most commonly reported possibly or probably treatment-related adverse event during maintenance therapy was diarrheary and sufferned.

Interpretation of the grant of

of diarrhea for patients treated with PHEVALIU was 35% impourbus and a considerable was experiences occurring in c1% of patients or subjects in domestic trials are shown below. Refer to Postmarketing for adverse reactions occurring since the drug was marketed.

Body as a Whole – abdomen enlarged, allergic reaction, asthenia, back pain, candidiasis, carcinoma, chest pain (not otherwise specified), chilis, edema, fever, flu syndrome, halitosis, infection (not otherwise specified), malaise, eneck pain, neck fluighty, pain, pelvic pain; Cardiovascular System – angina, arriythmia, bradycardia, cerebrovascular accident/cerebrai infraction, hypertension/hypotension, migraine, myocardial infarction, palpitations, shock (circulatory failure), syncope, tachycardia, vasodilation; Digestive System – ahonormal infraction, pyertension/hypotension, migraine, myocardial infarction, palpitations, shock (circulatory failure), syncope, tachycardia, vasodilation; Digestive System – ahonormal stools, anorexia, bezoar, cardiospasm, choleithiasis, colitis, dry mouth, dyspepsia, dysphagia, entertits, erructation, esophageal stenosis, esophageal ulcer, esophagitis, fecal discoloration, flatulence, gastriic noduels/mulci gland polyps, gastristig, astrointestinal anomaly, gastrointestinal disorder, gastrointestinal hemorrhage, elosatistis, gastrointestinal anomaly, gastrointestinal disorder, gastrointestinal hemorrhage, elosatistis, gum hemorrhage, hematemesis, increased appetite, increased asilvation, melena, mouth ulceration, nausea and vorniting, nausea and vorniting and diarrhea, oral moniliasis, rectal and lumphatic System - amania, hemolysis, hymphadenopathy, Metabolic and Mutritional Disorders - gout, dehydration, hyperglycemia/hypoglycemia, peripheral edema, weight painloss. Mucculoskelatel System - arthraliga, arthritis, bone disorder, joint disorder, joint painloss, musculoskelatal pain, myalgia, myasthenia, synovitis. Renvous System - abhormating aindress, previous minimal painloss in the provision, depression, diplopia, dizzi

voluntarily from a population of unknown size, estimates of frequency cannot be made. These events are listed below by COSTART body system.

Body as a Whole- anaphylactoid-like reaction; Digestive System - hepatotoxicity, pancreatitis, ownthing; Hemain and Lymphatic System - agranulocytosis, aplastic anemia, hemolytic anemia, leukopenia, neutropenia, pancytopenia, thrombocytopenia, and thrombotic thrombocytopenio purpura; Skin and Appendages - severe dermatologic reactions including eythema multiforme, Stevens-Johnson syndrome, toxic epidermal necrolysis (some fatal); Special Senses - speech disorder, Urgental System - urinary retention.

Combination Therapy with Amoxicillin and Clarithromycin in clinical trials using combination therapy with PREVACID plus amoxicillin, not adverse reactions peculiar to these drug combinations were observed. Adverse reactions that have occurred have been limited to those that had been previously reported with PREVACID, amoxicillin, or clarithromycin.

Triple Therapy; PREVACIO/amoxicillin/clarithromycin
for most frequently reported adverse events for patients who received triple therapy for 14 days were diarrhae (7%), headache (6%), and taste perversion (5%). There were no statistically significant differences in the frequency of reported adverse events between the 10- and 14-day triple therapy regimens. No treatment-emergent adverse events between the 10- and 14-day triple therapy regimens. No treatment-emergent adverse events between the 10- and 14-day triple therapy regimens. No treatment-emergent adverse events between the 10- and 14-day triple therapy regimens. No treatment-emergent adverse events between the 10- and 14-day triple therapy regimens. No treatment-emergent adverse events between the 10- and 14-day triple therapy regimens.

observed a significantly injurier lates with upter the legally than with any out or legal Therapy. PERVACID/amoxicillin

The most frequently reported adverse events for patients who received PREVACID Li.d. plus amoxicillin t.i.d. dual therapy were diarrhea (8%) and headache (7%). No treatment-emergent adverse events were observed at significantly higher rates with PREVACID Li.d. plus amoxicillin t.i.d. dual therapy than with PREVACID alone.

For more information on adverse reactions with amoxicillin or clarithromycin, refer to their package inserts, ADVERSE REACTIONS sections.

Datadge insense, received the laboratory parameters for lansoprazole were reported as adverse the following changes in laboratory parameters for lansoprazole were reported as adverse

events:
Abnormal liver function tests, increased SGOT (AST), increased SGPT (AIT), increased creatinine, increased alkaline phosphatase, increased globulins, increased GGTP increased/decreased/abnormal WBC, abnormal AG ratio, abnormal RG, billirotinemals eosinophilla, hyperlipemal, increased/decreased electrolytes, increased/decreased/abnormal belatels, and increased/decreased/abnormal paletels, and increased gather increased/abnormal paletels, and increased gather increased ga

and hematuria were also reported. Additional isolated laboratory abnormalities were reported.

In the placebo controlled studies, when SGOT (AST) and SGPT (ALT) were evaluated, 0.4% (4)978) 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 addrathromycin, and PREVACID plus amoxicillin, no increased laboratory abnormalities particular to these drug combinations were observed.

For more information on laboratory value changes with amoxicillin or clarithromycin, refer to their package inserts, ADVERSE REACTIONS section.

to their package insuris, notation.

OVERDOSAGE

Oral doses up to 5000 mg/kg in rats (approximately 1300 times the recommended human dose based on body surface area) and mice (about 675.7 times the recommended human dose based on body surface area) and mice (about 675.7 times the recommended human dose based on body surface area) idil not produce deaths or any clinical signs.

Lansprazole is not removed from the circulation by hemodalysis. In one reported case of overdose, the patient consumed 600 mg of lansprazole with no adverse reaction.

Distributed by

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Lake Forest, IL 60045, U.S.A.

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S. aureus Is Agent of Fatal Syndrome

hree children diagnosed with Waterhouse-Friderichsen syndrome died after rapidly progressive illness was traced to severe Staphylococcus aureus infection, said Patricia V. Adem, M.D., of the University of Chicago, and her associates.

The three patients—a 15-month-old girl, a 9-month-old girl, and a 17-month-old boy—had been in good health prior to the onset of infection. Premortem cultures yielded methicillin-susceptible S. aureus in the first patient and methicillin-resistant *S*. aureus (MRSA) in the next two patients. All the isolates were genetically related, which underscores the rise in community-associated MRSA, the investigators said (N. Engl. J. Med. 2005;353:1245-51).

Characteristics of Waterhouse-Friderichsen syndrome include petechial rash, coagulopathy, cardiovascular collapse, and bilateral adrenal hemorrhage. Although extracorporeal membrane oxygenation has been associated with adrenal hemorrhage in other studies, it was not associated with fatal illness in the two patients in this review who received it.

Noteworthy clinical features in all three children included leukopenia, neutropenia, profound tachycardia, and profound metabolic acidosis, and the course of the disease resembled fulminant meningo-

Pathologic findings revealed severe sepsis and disseminated intravascular coagulation, but there was no evidence of myocarditis or endocarditis. The lungs of all three patients showed gram-positive cocci in clusters, some of which were found in the vascular walls.

-Heidi Splete