Aspirin May Offset NSAIDs' Cardiovascular Risk

BY BRUCE JANCIN Denver Bureau

AMSTERDAM — Concomitant aspirin use may fully reverse the increased atherothrombotic risk associated with cyclooxygenase-2 selective NSAIDs, Dr. Gurkirpal Singh reported at the annual European Congress of Rheumatology.

In addition, aspirin may reduce—albeit only partially in some instances-the cardiovascular risk conferred by most traditional nonselective NSAIDs, said Dr. Singh of Stanford (Calif.) University.

Although these findings from a large case-control study provide insight into the mechanism by which NSAIDs increase cardiovascular risk, he stressed that adding a daily aspirin in order to mitigate that cardiovascular risk is not a practical solution for arthritis patients seeking pain relief. That's because there is some evidence that concomitant use of aspirin and NSAIDs, whether COX-2 selective or not,

appears to magnify the risk of NSAIDassociated GI bleeding, he said.

Dr. Singh utilized the California Medicare database to identify all adults with rheumatoid arthritis or osteoarthritis treated with a COX-2 selective or nonselective NSAID from 1999 through the first half of 2004. During nearly 2.4 million patient-years of follow-up, 15,343 arthritis patients experienced an acute MI, 8% of which were fatal. Each MI patient was matched to four controls.

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 HEACTIONS
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
are similar. In general, hansoprazole treatment has been well-tolerated 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:
nicidence of Passibly or Probably
Treatment-Related Adverse Events in Short-Term, Placebo-Controlled Studies
PREVACID
Redy System/Adverse Event
%
Body System/Adverse Event
%

 Data linea
 3.0
 1.2

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 1.2
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 1.2

 Headache was also seen at greater than 1% incidence but was more common on placebo.
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 1.2

 Headache was also seen at greater than 1% incidence but was more common on placebo.
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 The incidence of diarrhea was similar between platents who received lansoprazole 60 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 diarrhea.

 In the risk reduction study of PREVACID for NSAID-associated gastric ulers, the incidence of diarrhea for patients treated with PREVACID was 5%, misoprostol 22%, and placebo 3%.
 Additional adverse experiences occurring in <1% of patients or subjects in domestic trials are shown below. Refer to **Postmarketing** for adverse reactions occurring since the drug was marketed.

Additional adverse experiences occurring in <1% 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* – abdome enlarged allergic reaction, asthenia, back pain, candidiasis, carcinoma, chest pain (not otherwise specified), chills, edema, fever, flus yndrome, haltosis, finction (not otherwise specified), malaise, neck pain, neck rightly, pain, pelvic pain; *Cardiovascular System* – angina, arthythma, bradycardia, carebrovascular accident/orebrai thraction, hypertension/hypotension, migraine, myocardial infaction, paphations, shock circulatory failure), syncope, tachycardia, vasoditation; *Digestive System* – abnormal discoloration, flatilence, gastricin odustribuiliti, sici of the synchesis of the synchesis dysphagia, enteritis, erructation, esophageal stenosis, esophageal ulcer, esophagits, fecal discoloration, flatilence, gastricin odustribuiliti, gastrointestinal hemorrhage, torenteritis, gastrointestinal anomaly, gastrointestinal disorder, gastrointestinal hemorrhage, esophageal ulcer atomatise. *Endocrine System* – diabetes mellitus, goiter, hypothyroidism; *Hemi disorder*, recta Homorrhage, Sterem – arhangia, arhthris, bone disorder, ideatrointestinal *and Lymphatic System* – anten, hemolysis, hymphadengoathyr, *Metabolic* and *Murtitonal Disorders* – gout, dehydration, hyperdyscima/hypodycemia, peripheral edema, weight grantos, *Rusculeskeld Jose*, parketha, arhthris, bone disorder, joint disorder, legit disorder, legit and *Lymphatic*, *Respiratory System* – asthagia, anthrist, bone disorder, joint disorder, legit grantos, *Rusculeskeld Jose*, parketha, synchison, comvulsion, depersonalization, depression, diplopia, diziness, emotional lability, hallucinations, hemplegia, hostility grantast, hemophysis, hiczu, Laryngaa neoplasia, pharyngits, pleural disorder, perundia, dysphera, erspiratory disorder, upper reginatory infitmamadonimietic hrinitis, situsio; *Sterior, Respirato*

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1.2

0.4 2.3 1.2

ADVERSE REACTIONS

Body System/Adverse Event Body as a Whole Abdominal Pain Digestive System Constipation Diarrhea Neuron

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

PREVACID® (lansoprazole) Delayed-Release Capsules

PREVACID® (lansoprazole) For Delayed-Release Oral Suspe

PREVACID[®] SoluTab[™] (lansoprazole) Delayed-Release Orally

rating Tablets Rx only

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

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

H. pylori Eradication to Reduce the Risk of Duodenal Ulcer Recurrence Triple Therapy: PRFVACID/amovicillin/clarithremusic

(py: PREVACID/amoxicillin/clarithromycin y: PREVACID/amoxicillin either allergic or intolerant to clarithromycin or in whom resistance rcin is known or suspected.

clarithromycin is known or suspected. Maintenance of Healed Duodenal Ulcers Controlled studies do not extend beyond 12 months. Short-Ferm 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 do in extend beyond 12 weeks. Gastroesophageal Relitus Disease (GERD) Short-Ferm Treatment (up to 8 weeks) of Frosive Esophagitis For patients who do not heal with PREVACID for 8 weeks (5-10%), it may be helpful to give an additional 8-week course of PREVACID may be considered. Maintenance of Healing of Ensure Esophagitis

additional 8-week course of PREVACID may be considered. Maintenance of Healing of Crosive Esophagitis Controlled studies did not extend beyond 12 months. Pathological Hypersecretory Conditions Including Zollinger-Ellison Syndrome CONTRAINDICATIONS 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 carithromycin, entraindicated in a patients with a known hypersensitivity to Carithromycin is contraindicated in patients with a known hypersensitivity to Carithromycin and ory of the macroidide antibiotics. Concomitant administration of clarithromycin with cisapride, pimozide, stemizole, or stemizole, or terheadine is contraindicated in patients with a since when the semicole, or terheadine is contraindicated in patients with be a stemized or the clarithromycin and/or erythromycin and or of the macroidide antibiotics. Concomitant administration of clarithromycin are co-administered with cisapride, pimozide, pimoz (Please refer to full prescribing information for amoxicillin and clarithromycin before

WARNINGS CLARITHROMYCIN SHOULD NOT BE USED IN PREGNANT WOMEN EXCEPT IN CLINICAL CIRCIMISTANCES WHERE NO ALTENNATIVE THERAPY IS APPROPRIATE. IF PREGNANCY OCCURS WHILE TAKING CLARITHROMYCIN, THE PATIENT SHOULD BE APPRISED OF THE POTENTIAL HAZAD TO THE FETUS. (SEE WARNINGS IN PRESCRIBING INFORMATION FOR CLARITHROMYCIN). Pseudomembranous colitis has been reported with nearly all antibacterial agents, including clarithromycin and amozicillin, and may range in severity from mild to life threatening. Therefore, it is important to consider this diagnosis in patients who present with diarthes aubsequent to the administration of antibacterial agents. Treatment with antibacterial agents alters the normal flora of the colon and may permit with diarthes autoinicat that a toxin produced by *Closindium difficie* is a primary cause of "antibiotic-associated colitis." After the diagnosis of pseudomembranous colitis has heen established therapentic

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 hypersonsitivity (anaphylactic) reactions have been reported in patients on penicillim therapy. These reactions are more apt to occur in individuals with history of penicillin hypersensitivity and/or a history of sensitivity to multiple allergens. There have been well-documented reports of individuals with a history of penicillin hypersensitivity reactions who have experienced severe hypersensitivity reactions have been explanated with a cephalosporin. Beroin initiating therapy with any pencillin, caretiu inquiry should be made concerning previous hypersensitivity reactions to penicillin serious, and other alergenes. If an allergic reaction occurs, amoxicillin should be discontinued and the appropriate therapy instituted. SERIOUS ANAPYLACTIC REACTIONS REOLINE IMMEDIATE EMERGENCY THEATMENT WITH EPINEPHRINE OXYGEN, INTRAVENOUS STEROIDS, AND AIRWAY MANAGEMENT, INCLUDING INTUBATION, SHOULD ALSO BE ADMINISTERED AS INDICATED. **PRECAUTONS**

INCLUDING INFORMATION PRECAUTIONS General Symptomatic response to therapy with lansoprazole does not preclude the presence of gastric malignancy.

gastric malignancy. Information for Patients PREVADD is available as a capsule, orally disintegrating tablet and oral suspension, and is available in 15 mg and 30 mg strengths. Directions for uses 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 "uccurr."

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

tration Options

1. PREVACID Delayed-Release Capsules

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:

Open capsule.
 Sprinkle intact granules on one tablespoon of either applesauce, ENSURE[®] pudding, cottage cheese, yogurt or strained pears.
 Svallow immediately.

PREVACID 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
 Open capsule
 or open capsule
 or open capsule
 or open capsule
 open caps

PREVACID Solurab Delayed-Release Orally Disintegrating Tablets PREVACID Solurab Delayed-Release Orally Disintegrating Tablets PREVACID Solurab 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, PREVACID Solurab can be delivered in two different ways.

PREVACID Solurab can be delivered in two different ways. PREVACID Solurab - Oral Syringe PREVACID Solurab can be administered as follows: Pface at 15 mg tablet in oral syringe and draw up approximately 4 mL of water, or place a 30 mg tablet in oral syringe and draw up approximately 10 mL of water. • Shake gently to allow for a quick dispersal. • After the tablet has dispersed, administer the contents within 15 minutes. • Refit the syringe with approximately 2 mL (5 mL for the 30 mg tablet) of water, shake gently, and administer any remaining contents.

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

To administration was an assignable toole, if the Profit Solutian can be administrative as lollows: 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.

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

3. PREVACID for Delayed-Release Oral Suspension REVACID for Delayed-Release Oral Suspension should be administered as follows:

o prepare a dose, empty the packet contents into a container containing 2 tablespoons of VATER. DO NOT USE OTHER LIQUIDS OR FOODS.

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

• any initiality elevations size Uniking, you more vater, sur, and Uniki Minecatery.
• This product should not be given through enteral administration tubes. **Drug Interactions Lansportacies is metabolized through the cytochrome Pass**Stydes and CYP2C19 isozymes. Studies have shown that lansoprazole does not have circlinally significant interactions with other drugs metabolized by the cytochrome Pass system, such as warfarin, antipyrine, indomethacin, ibuprofen, phenytoin, proprianold, prednisone, diazgam, or clarithromycin in healthy subjects. These compounds are metabolized by the cytochrome Pass (CYP2C19, CYP2C19, CY

respectively, when administered concomitanity with sucralitie. Therefore, proton pump inhibitors should be taken at least 30 minutes prior to sucralitie in clinical risks stanaids were administered concomitanity with PREVACID Delayed-Release Capsules; this did not interfere with les effect. Lansoprazole causes a profound and long-lasting inhibition of gastric acid secretion; therefore, it is theoretically possible that lansoprazole may interfere with the absorption of drugs where gastric pH is an important determinant of bioavailability (e.g., ketoconazole, ampicillin esters; inon salts, digoxin). **Carcinogenesis, Mutagenesis, Impairment of Fertility** In two 24-month carcinogenicity studies, Sprayue-Dawley rats were treated orally with doese of 5 to 50 mg/kg/da, aduot 11 040 times the exposure on a body surface (mg/m²) basis, of a 50-kg person of average height (1.46 m², body surface area) given the recommended human dose of 30 mg/day (222 mg/m²). Lansoprazole produed does-related gastric enterochromafirn-like (ECL) cell hyperplasia and ECL cell carcinolits in both male and female rats. It also increased the incidence of intestima metaplasia of the gastric epithelium in both sexes. In male rats, lansoprazole produced a dose-related increase of the 50 mg/kg/day (4 to 40 times the recommended human dose based on body surface area) exceeded the bow dockground incidence (range 1-4 to 10%) of this strain of rat. Testicular interstilia cell adenoma also occurred in 1 of 30 rats treated with 50 mg/kg/day, 2 to 80 times the recommended human dose based on body surface area) in a 1-year toxicity study. In a 24-montu 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) in a 1-surface areal, exceeded the other state oral on dof 50 mg/kg/day (4 to 80 times the recommended human dose based on body surface area) in a 1-state toxicity study.

poory surface area). Lansoprazole was not genotoxic in the Ames test, the *ex vivo* rat hepatocyte unscheduled DNA synthesis (UDS) test, the *in vivo* mouse micronucleus test or the tab hore marrow cell chromosomal aberration test. It was positive in *in vitro* human lymphocyte chromosomal aberration assvas.

aberration assays. 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: Teratogenic Effects. Pregnancy Category B

Mensitular usoften, pensi usorower, yrenov, urination impaired, vaginitis. Postmarketing On-going Safety Surveillance: Additional adverse experiences have been reported since lansoprazole has been marketed. The majority of these cases are foreign-sourced and a relationship to lansoprazole has not been established. Because these events were reported voluntarily from a population of unknown size, estimates of frequency cannot be made. These events are listed below by OSDSRH body system. Body as a Whole - anaphylactiol-like reaction; *Digestive System* - hepatotoxicity, pancreatitis, vormiting, *Hemic and Lymphate System* - agranulocyclosis, galastici anemia, hemotytic anemia, leukopenia, neutropenia, pancytopenia, thrombocytopenia, and thrombotic special Senses - speciel disorder, *Urogenial System* - uniary relations, and thrombotic special Senses - speciel disorder, *Urogenial System* - uniary relations -minet and using the system - uniary relation and the sense special disorder, *Urogenial System* - uniary relation and cantithomycin, and PREVAGID plus amoxicillin, no 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 plus amoxicillin, or clarithromycin. Triple Therapy. PREVACID/amoxicillin/clarithromycin The most frequently reported with PREVACID, amoxicillin, or clarithromycin. Triple Therapy. PREVACID/amoxicillin/clarithromycin The most frequently reported with PREVACID, amoxicillin, and 14-day triple therapy for 14 days were diarribea (T%), headache (6%), and taste pervension (5%). There were no observed a significant) differences in the frequency of reported adverse events between the 10-and 14-day triple therapy regimes. No treatment-emergent adverse events were observed a significant higher rates with triple therapy than with any dual therapy regimes. Dual Therapy: PREVACID/amoxicillin nsoprazole atology studies have been performed in pregnant rats at oral doses up to 150 mg/kg/day 0 times the recommended human dose based on body surface area) and pregnant rabbits oral doses up to 30 mg/kg/day (16 times the recommended human dose based on body race area) and have revealed no evidence of impaired fertility or harm to the fetus due to

soprazole. mere are, however, no adequate or well-controlled studies in pregnant women. Because mal reproduction studies are not always predictive of human response, this drug should used during pregnancy only if clearly needed. ginancy Category C

lanthromycan ee **WARNINGS** (above) and full prescribing information for clarithromycin before using in

pregnant women. **Nursing Mothers** Lansoprazole is excreted in human milk. Because many drugs are excreted in human milk, because of the potential for serious adverse reactions in nursing inflants from lansoprazole, and because of the potential for strongenicity shown for lansoprazole in rat cariongenicity studies, a decision should be made whether to discontinue nursing not accionation the drug, taking into account the importance of the drug to the mother.

JTrug, Taking into account the improvement of the probability of th

PherVAID In parameters 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 for 8 weeks and 15% (10/66) took it for 12 weeks. The most frequently reported (2 or more patients) treatment-related adverse events in patients 1 to 11 years of age (N=66) were constipation (5%) and headache (3%).

patients 1 to 11 years of age (N=66) were constipation (5%) and neauacine (5%). **21 to 17 years of age** The safety of PREVACID Debayed-Release Capsules has been assessed in these 87 adolescent patients. Of the 87 adolescent patients with GERD, 6% (5/87) took PREVACID for 45 weeks, 35% (81/87) for 5-10 weeks, and 1% (1/87) for 5-10 weeks. The most frequently reported (at least 3%) treatment-related adverse events in these patients were headche (7%), advominal pain (5%), nausea (3%) and dizziness (5%). Treatment-related dizzness, reported in this package insert as occurring in c1% of adult patients, were headche (7%), duy by 3 adolescent patients with neorosive GERD, who had dizzness concurrently with other events (such as migraine, dyspnea, and vomiting). **I** er in **Mmen**

Ucer healing rates in elderly patients are similar to those in a younger age group. The

In the placebo controlled studies, when SGOT (AST) and SGPT (ALT) were evaluated, 0.4% (11/2677) lansoprazole 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 triats using combination therapy with PREVACID plus amoxicillin, no increased laboratory abnormalities particular to these drug combinations were observed. unese orug combinations were observed. Information on laboratory value changes with amoxicillin or clarithromycin, refer Kage inserts, ADVERSE REACTIONS section. ACE

observed at significantly ingher rates with imple therapy than with any dual therapy regimen. Dual Therapy: PEVACID/amocialitiin The most frequently reported adverse events for patients who received PREVACID Li.d. plus amoxicillin Li.d. dual therapy were diarrhea (%) and headache (7%). No treatment-emergent adverse events were observed at significantly higher rates with PREVACID Li.d. plus amoxicillin Li.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.

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

avents: Abnormal liver function tests, increased SGOT (AST), increased SGPT (ALT), increased reatinine, increased alkaline phosphatase, increased globulins, increased GGTP, ncreased/decreased/abnormal WBC, abnormal AG ratio, abnormal ABC, bilirubinemia, osinophila, phorifipenia, increased/decreased electrolytes, increased/decreased cholesterol, increased gloucoorticoids, increased LDH, increased/decreased/abnormal patelets, and increased gloucoorticoids. Increased LDH, increased/decreased/abnormal and hematuria were also reported. Additional isolated laboratory abnormalities were arouted.

The adjusted relative risk of MI was increased by 31% in patients being treated with rofecoxib and by 12% in patients being treated with celecoxib, compared with the rate in remote users of any NSAID. Both differences were significant.

The MI risk was also increased by 65% in current users of indomethacin, by 52%with meloxicam, and by 47% with sulindac, but was not significantly elevated in current ibuprofen users.

Concurrent use of aspirin completely reversed the increased MI risk associated with rofecoxib, celecoxib, meloxicam, and sulindac. However, the increased risk in current users of indomethacin was only partially and nonsignificantly reduced, such that patients on concomitant aspirin and indomethacin still had a 20% increased risk, he explained.

In a separate presentation, Dr. Steven B. Abramson said he thought Dr. Singh's



cardioprotective.

A single aspirin gives some cardioprotection because you're getting 24-hour inhibition of platelets.

DR. ABRAMSON

findings make a lot of sense. "My instincts are that there will be some cardioprotection because you're getting 24-hour inhibition of platelets with a single aspirin," added Dr. Abramson, professor of medicine and associate dean for clinical research at New York University.

He noted that there is encouraging evidence to suggest that high-dose naproxen alone, among the various selective and nonselective NSAIDs, may actually be

It has been shown that 500 mg of

naproxen provides good platelet inhibition for close to 12 hours. Moreover, a recent large metaanalysis of trials comparing

COX-2 inhibitors with nonselective NSAIDs, or drugs in either class with

placebo, showed that while the COX-2 in-

hibitors were associated with a 42% rela-

tive increase in MIs and other vascular

events relative to placebo, a comparable risk was present in patients on high doses

of traditional NSAIDs-except for those

The metaanalysis, led by investigators at

the University of Oxford, involved rough-

ly 145,000 patients in 138 randomized tri-

als, including some unpublished ones on

file with manufacturers (BMJ 2006;332:

1302-8). "It still remains uncertain whether

naproxen is cardioprotective, but it proba-

bly is at 500 mg twice per day. Over-the-

counter naproxen at lower doses is proba-

bly not going to be protective based on the

However, he was quick to add that this tentative conclusion will have to be shown in prospective clinical trials before the FDA would consider removing the warn-

ing of increased cardiovascular risk from

naproxen's label, a warning currently applied to all COX-2 selective and tradition-

Pages 18a—18b\$

al NSAIDs.

available evidence," Dr. Abramson said.

on naproxen at 500 mg b.i.d.