Aspirin Not Correctly Prescribed for Heart Health

BY SHARON WORCESTER Tallahassee Bureau

ORLANDO, FLA. — Many primary care physicians do not prescribe aspirin appropriately for cardioprotection, a national survey suggests.

Many of the 1,000 primary care physicians who responded are unaware of-or disregard-data about the use of aspirin for cardioprotection and recommend to their patients doses that are too high,

William D. Chey, M.D., said at the annual meeting of the American College of Gastroenterology.

The lowest cardioprotective dose of aspirin is 81 mg/day in healthy patients and in those at risk for gastrointestinal complications. Those with gastrointestinal risk should receive gastroprotection, such as a proton pump inhibitor, Dr. Chey said.

About half of those responding to the Internet survey were internists, and half were family physicians or general practitioners. Respondents, generally between 35 and 54 years old and evenly distributed geographically across the United States, had previously agreed to participate in survey research.

Overall, 95% said they recommend aspirin for cardioprotection in patients over age 60 years, with 62% always recommending aspirin therapy and 33% usually recommending aspirin therapy, said Dr. Chey of the University of Michigan, Ann Arbor.

ADVERSE REACTIONS

During the clinical development of ENABLEX® (darifenacin) extended-release tablets, a total of 7,363 patients and volunteers were treated with doses of darifenacin from 3.75 mg to 75 mg once daily. patients and voluments were indexed with uses to datientation from 3.7 and 10.75 mig to the datiy. The data of the patients, 6,001 of whom were treated with ENABLEX. Of this total, 1,069 patients participated in three e14.85,001 of whom were treated with ENABLEX. Of this total, 1,069 patients participated in three ENABLEX to the data of the ENABLEX to the data of the da

and placebo-controlled trials combined, the incidence of serious adverse events for 7.5 mg, 15 mg and placebo was similar. In all fixed-dose Phase III studies combined, 3.3% of patients treated with ENABLEX discontinued due

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patients treated with ENABLEX / 5 mg daily, ENABLEX 1 mg daily and placebo, respectively. Table 4 lists the adverse events reported (regardless of causality) in 2% or more of patients treated with 7,5-mg or 15-mg ENABLEX extended-release tablets and greater than placebo in the three, fixed-dose, placebo-controlled Phase III studies (Studies 1, 2 and 3). Adverse events were reported by 26% and 6% of patients receiving 7.5 mg and 15 mg once-daily ENABLEX extended-release tablets, respectively, and by 49% of patients receiving placebo. In these studies, the most frequently reported adverse events were dry mouth and constipation. The majority of adverse events INABLEX-treated subjects were mild or moderate in severity and most occurred during the first two weeks of treatment

acts were mild or moderate in seventy and most orcument warms in a mather Incidence of Adverse Events* Reported in 2.0% of Patients Treated with ENABLEX® Extended-Release Tablets and More Frequent with ENABLEX® than with Placebo in Three, Fixed-Dose, Placebo-Controlled, Phase III Studies (Studies 1, 2, and 3) Adverse Event Percentage of Subjects with Adverse Event (%) Body System

ouy system	Auverse Event	rercentage of Subjects with Auverse Event (%)		
		ENABLEX® 7.5 mg N = 337	ENABLEX® 15 mg N = 334	Placebo N = 388
igestive	Dry Mouth	20.2	35.3	8.2
	Constipation	14.8	21.3	6.2
	Dyspepsia	2.7	8.4	2.6
	Abdominal Pain	2.4	3.9	0.5
	Nausea	2.7	1.5	1.5
	Diarrhea	2.1	0.9	1.8
rogenital	Urinary Tract Infection	4.7	4.5	2.6
ervous	Dizziness	0.9	2.1	1.3
ody as a Whole	Asthenia	1.5	2.7	1.3
ye	Dry Eyes	1.5	2.1	0.5
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*Regardless of causality Other adverse events reported, regardless of causality, by ≥1% of ENABLEX patients in either the 7.5 mg or 15 mg once-daily darifenacin-dose groups in these fixed-dose, placebo-controlled Phase I studies include: abnormal vision, accidental injury, back pain, dry skin, flu syndrome, pain, hyperten sion, vomiting, peripheral edema, wight gain, arthrafiagi, bronchitis, pharyngits, rhinitis, sinusits, rash, pruritus, urinary tract disorder and vaginitis.

Study 4 was a 12-week, placebo-controlled, dose-titration regimen study in which ENABLEX was administered in accordance with dosing recommendations (see DOSAGE AND ADMINISTRATION in the full prescripting information). All patients initially received placebo or ENABLEX 7.5 mg dally, and after two weeks, patients and physicians were allowed to adjust upward to ENABLEX 15 mg if needed. In this study, the most commonly reported adverse events were also constipation and dry mouth. The incidence of discontinuation due to all adverse events was 3.1% and 6.7% for placebo and for ENABLEX, respectively. Table 5 lists the adverse events (regardless of causality) reported in >3% of patients treated with ENABLEX extended-release tablets and greater than placebo.

Table 5 Table 5 Number (%) of Adverse Events* Reported in x3% of Patients Treated with ENABLEX® Extended-Release Tablets, and More Frequent with ENABLEX® than Placebo, in the Placebo-Controlled, Dose-Titration, Phase III Study (Study 4)

Adverse Event	ENABLEX® 7.5 mg/15 mg N = 268	Placebo N = 127
Constipation	56 (20.9%)	10 (7.9%)
Dry Mouth	50 (18.7%)	11 (8.7%)
Headache	18 (6.7%)	7 (5.5%)
Dyspepsia	12 (4.5%)	2 (1.6%)
Nausea	11 (4.1%)	2 (1.6%)
Urinary Tract Infection	10 (3.7%)	4 (3.1%)
Accidental Injury	8 (3.0%)	3 (2.4%)
Flu Syndrome	8 (3.0%)	3 (2.4%)

negarruess of causality Acute urinary retention (AUR) requiring treatment was reported in a total of 16 patients in the ENABLEX Phase I-III clinical trials. Of these 16 cases, seven were reported as serious adverse events, including one patient with defrusor hyperrefixed as secondary to a stroke, one patient with being norstain hyper-trophy (BPH), one patient with irritable bowel syndrome (IBS) and four OAB patients taking darifenacian 30 mg daily. Of the remaining mice cases, none were reported as serious adverse events. Three occurred in OAB patients taking the recommended doses, and two of these required bladder catheteri-zation for 1-2 days.

Constipation was reported as a serious adverse event in six patients in the ENABLEX Phase I-III clinical trials, including one patient with benign prostatic hypertrophy (BPH), one OAB patient taking darifenacin 30 mg daily, and only one OAB patient taking the recommended doses. The latter patient was hospitalized for investigation with colonoscopy after reporting nine months of chronic constipation that was reported as being moderate in severity.

Storage Store at 25°C (77°F); excursions permitted to 15-30°C (59-86°F) [see USP Controlled Room Temperature1. Protect from light.

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Nearly 70% said they recommend 81 mg daily, but 30% said they recommend 325 mg daily. "This is relevant because there may be a dose-response relationship between aspirin and the likelihood of developing ulcer disease and, consequently, gastrointestinal bleeding," Dr. Chev said.

Another troubling finding was that 62% of respondents said they would recommend enteric-coated aspirin for a patient at high risk for gastrointestinal bleeding due to a previous ulcer bleed despite a lack of data showing any benefit of coated aspirin over regular aspirin. Also only 28% recommended concurrent gastroprotective therapy, such as with a proton pump inhibitor or misoprostol. Most said they would put the patient on aspirin alone, he said.

"I guess the good news is that [gastroenterologists] are going to stay in business if this is truly representative of primary care physicians," he said, noting that a study last year showed that the likelihood of such a high-risk patient developing recurrent gastrointestinal bleeding when put on aspirin therapy alone is about 15%.

Aspirin cardioprotection in those who require treatment with an NSAID is more controversial, Dr. Chey said. In one study of patients with a history of ulcer bleeding, the use of a PPI and an NSAID and the use of a cyclooxygenase-2 (COX-2) inhibitor alone were both associated with a recurrent bleeding rate of about 5% at 6 months.

The withdrawal of Vioxx from the market has highlighted concerns about COX-2 inhibitor and myocardial infarction risk. For now, avoid using COX-2 inhibitor in those with known coronary artery disease, Dr. Chey advised. In those without coronary artery disease who are at high risk for gastrointestinal complications, the use of a COX-2 inhibitor and PPI is warranted, but there is little or no incremental gastrointestinal safety benefit from aspirin and a COX-2 inhibitor vs. a traditional NSAID alone.

When physicians in the survey were asked about their knowledge of the effects of aspirin in patients using a COX-2 inhibitor, 69% of respondents said they were aware of the data showing that aspirin decreases or eliminates the gastrointestinal safety benefits of the COX-2 inhibitor (31% were unaware or thought that aspirin improved the effects of COX-2 inhibitor). Yet when asked how they would manage a patient with no history of peptic ulcer disease, but with a need for nonsteroidal antiinflammatory drug treatment for arthritis, 45% said they would recommend aspirin and a COX-2 inhibitor.

"Even more interesting, in a high-risk patient with a history of ulcer bleeding, 60% said they would recommend a proton pump inhibitor with a coxib and aspirineven though there are no published data to support this strategy, and 24%, disturbingly, would choose a coxib and aspirin without gastroprotection," Dr. Chey said.

There is no logic to this combination, he said, adding that further educational efforts are necessary to correct these "important knowledge deficits."

ENABLEX®

(darifenacin) Extended-release tablets

BRIEF SUMMARY: Please see package insert for full prescribing information.

INDICATIONS AND USAGE BUABLEX® (darifenacin) extended-release tablets are indicated for the treatment of overactive bladder with symptoms of urge urinary incontinence, urgency and frequency. CONTRAINDICATIONS

ENABLEX® (darifenacin) extended-release tablets are contraindicated in patients with urinary retention. gastric retention or uncontrolled narrow-angle glaucoma and in patients who are at risk for these conditions. ENABLEX is also contraindicated in patients with known hypersensitivity to the drug or its ingredients

Its ingredients. PRECAUTIONS General Risk of Urinary Relention EMABLEX® (duritenacin) extended-release tablets should be administered with caution to patients with clinically significant bladder outflow obstruction because of the risk of urinary relention. Decreased Gastroinestinal Molity EMABLEX should be administered with caution to patients with gastrointestinal obstructive disorders because of the die of anotic entention. EMABLEX Because of the die of anotic entention. EMABLEX

Levence: A should be administered wind calledin to platents wint gasholinessinal obsortubite usones because of the risk of gashric releation. ENABLES, like other anticholinergic driving, may decrease gastrointestinal motility and should be used with caution in patients with conditions such as severe constigation, ulcerative colities, and mystehenia gravis.

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Information for Patients

Patients should be informed that anticholinergic agents, such as ENABLEX, may produce clinically taxifies and use on entrinse tax taxifications and the second sec ENABLEX, may produce dizziness or blurred vision, patients should be advised to exercise caution in decisions to engage in potentially dangerous activities until the drug's effects have been determined. Patients should read the patient information leaflet before starting therapy with ENABLEX. ENABLEX extended-release tablets should be taken once daily with liquid. They may be taken with or without food, and should be swallowed whole and not chewed, divided or crushed.

Drug Interactions The daily dose of ENABLEX should not exceed 7.5 mg when coadministered with potent CYP3A4 inhibitors (e.g., ketoconazole, itraconazole, ritonavir, nelfinavir, clarithromycin and nefazadone) (see CLINICAL PHARMACOLOGY and DOSAGE AND ADMINISTRATION in the full prescribing information). Caution should be taken when ENABLEX is used concomitantly with medications that are predominantly metabolized by CYP2D6 and which have a narrow therapeutic window, such as flecainide, thioridazine and tricyclic antidepressants (see CLINICAL PHARMACOLOGY in the full prescribing information).

Internation, The concomitant use of ENABLEX with other anticholinergic agents may increase the frequency and/or severity of dry mouth, constipation, blurred vision and other anticholinergic pharmacological effects. Anticholinergic agents may potentially alter the absorption of some concomitantly administered drugs due to effects on gastrointestinal motility.

Drug Laboratory Test Interactions

Interactions between darifenacin and laboratory tests have not been studied.

Interactions between darifenacin and laboratory tests have not been studied. Carcinogeneity Mulagenest/Impairment of Fermillity Carcinogeneity studies with darifenacin were conducted in mice and rats. No evidence of drug-related carcinogeneity was revealed in a 24-month study in mice at dietary doese up to 100 mg/kg/day or up to approximately 32 times the estimated human-free AUC_{0-24n} reached with 15 mg, the maximum recom-mended human dose (AUC at MHHO) and in a 24-month study in rats at dosse up to 15 mg/kg/day or up to approximately 12 times the AUC at MHHO In remailer ats and approximately egitt interes the AUC at MRHO In male rats. Darifenacin was not mutagenic in the bacterial mutation assays (Ames test) and the Chinese hamster ovary assay, and not clastogenic in the human lymphocyte assay, and the *in vivo* mouse bone marrow evidoeneitics asaw.

cytogenetics assay.

There was no evidence for effects on fertility in male or female rats treated at oral doses up to 50 mg/kg/day. Exposures in this study correspond to approximately 78 times the AUC at MRHD.

There was the envention envention and the study correspond to approximately 78 times the AUC at MRHD. **Pregnancy Category C** Darifenacin was not treatogenic in rats and rabbits at doses up to 50 and 30 mg/kg/day, respectively. At the dose of 50 mg/kg in rats, there was a delay in the ossification of the sacral and caudal vertebrae which was not observed at 10 mg/kg (approximately 13 times the AUC of the plasma concentration at MRHD). Exposure in this study at 50 mg/kg corresponds to approximately 59 times the AUC of there plasma concentration at MRHD. Displate and the dose of 30 mg/kg (approximately 13 times the AUC of there plasma concentration at MRHD). Displate and the dose of 30 mg/kg (approximately 50 times the AUC of there plasma concentration at MRHD). Sight developmental delays were observed in pups at this dose. At 3 mg/kg/day (five times the AUC of tree plasma concentration at MRHD) there were no effects on dams or pups. At the dose of 30 mg/kg (in rabbits, dafienacin was shown to increase post-implantation loss but not at 10 mg/kg (inter times the AUC of tree plasma concentration at MRHD). Exposure to unbound drug at 300 mg/kg at dins study corresponds to approximately 25 times the AUC of at MRHD. In rabbits, dilated ureter and/kg along with uninary blader dation consistent with plarmaco-logical action of darifenacin. No effect was observed at 3 mg/kg/day (28 times the AUC of tree plasma concentration at MRHD). There are no studies of darifenacin in pergenative wome. Because animal reproduction studies are not always predictive of human reports. WABLES should be used during pregnancy only if the benefit to the mother outweights the potential is screted into the screted into the mother outweights the potential is to the fetus.

Musing Muther Section to the mount outward outward in the potential rate to be close. Musing Muthers Darifenancin is excreted into the milk of rats. It is not known whether darifenacin is excreted into human milk and therefore caution should be exercised before ENABLEX is administered to a nursing woman. Pediatric Use

The safety and effectiveness of ENABLEX in pediatric patients have not been established

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