Anxiety/Depression Don't Hinder Migraine Tx

BY MICHELE G. SULLIVAN

PHILADELPHIA — The psychiatric comorbidities of anxiety and depression may not portend poorer outcome in patients being treated for severe migraine, according to an analysis of results from a randomized, controlled trial.

In fact, compared with patients who did not have anxiety or depression, patients with those disorders actually experienced greater improvement in their headache-related disability scores over a 16-month period, said Elizabeth Seng, a doctoral student in the department of psychology at Ohio University, Athens.

The results seem to belie conventional clinical wisdom, which suggests that patients with psychiatric comorbidities don't respond to headache therapy as well as others, Ms. Seng said at a poster session during the International Headache Congress. But clinician perception, rather than clinical response, is probably the root of this belief, she said in an interview.

"In this study, participants who had comorbid depression and anxiety actually changed more over treatment," reaching the same end points as those without depression or anxiety, Ms. Seng said.

She extracted her results from the unpublished Treatment of Severe Migraine trial, led by Kenneth Holroyd, Ph.D., also of Ohio University. The trial randomized 232 patients with severe migraine. Everyone received optimal acute therapy. Patients were then assigned to one of four treatment arms: placebo, beta-blocker, behavioral management plus placebo, or behavioral management plus beta-blocker.

The trial consisted of a 4-month runin period and 12 months of treatment. Behavioral management consisted of clinic visits, telephone calls, and homework. The homework focused on relaxation, migraine warning signs, effective medication use, stress management or thermal biofeedback, and establishing an individual migraine management plan.

The cohort was 79% women, with a mean age of 38 years. They had an av-



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erage of five headaches a month, with a 15-year headache history.

At baseline, patients with either anxiety or depression showed worse average scores on the Headache Disability Inventory (HDI) than did patients without those disorders (56 vs. 41, respectively). They also showed worse scores on the Migraine-Specific Quality of Life (MSQOL) Questionnaire (43 vs. 37).

After 1 year of treatment, both groups improved significantly and similarly on both scales. On the HDI, those with comorbidities decreased an average of 33 points, to a score of 23; those without comorbidities dropped an average of 21 points, to a score of 20, Ms. Seng reported at the congress, which was sponsored by the International Headache Society and the American Headache Society.

On the MSQOL, the group with comorbidities dropped an average of 22 points to a final score of 21. The group without comorbidities dropped an average of 15 points to a final score of 22.

The study was supported by the National Institutes of Health. Merck and GlaxoSmithKline provided the study medication. Ms. Seng had no relevant disclosures to report.

Internal Medicine

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LIPITOR® (Atorvastatin Calcium) Tablets Brief Summary of Prescribing Information

Brief Summary of Prescribing Information

CONTRAINDICATIONS: Active liver disease, which may include unexplained persistent elevations in hepatic transaminase levels. Hypersensitivity to any component of this medication. Pregnancy—Women who are pregnant or may become pregnant. LIPITOR may cause fetal harm when administered to a pregnant woman. Serum cholesterol and triglycerdies increase during normal pregnancy, and cholesterol or cholesterol derivatives are essential for fetal development. Atherosclerosis is a chronic process and discontinuation of lipid-lowering drugs during pregnancy should have little impact on the outcome of long-term therapy of primary hypercholesterolemia. There are no adequate and well-controlled studies of LIPITOR use during pregnancy; however in rare reports, congenital anomalies were observed following intrauterine exposure to statins. In rat and rabbit animal reproduction studies, atorvastatin revealed no evidence of teratogenicity. LIPITOR SHOULD BE ADMINISTERED TO WOMEN OF CHILDBEARING AGE ONLY WHEN SUCH PATIENTS ARE HIGHLY UNLIKELY TO CONCEIVE AND HAVE BEEN INFORMED OF THE POTENTIAL HAZARDS. If the patient apprised of the potential hazard to the fetus (see Use in Specific Populations in full prescribing information). Nursing mothers—it is not known whether atorvastatin is excreted into human milk; however a small amount of another drug in this class does pass into breast milk. Because statins have the potential for serious adverse reactions in nursing infants, women who require LIPITOR treatment should not breastfeed their infants [see Use in Specific Populations in full prescribing information].

WARNINGS AND PRECAUTIONS: Skeletal Muscle—Rare cases of rhabdomyolysis with acute renal failure

serious adverse reactions in nursing infants, women who require LIPTUR freatment should not breastleed their infants [see *Use in Specific Populations* in full prescribing information].

WARNINGS AND PRECAUTIONS: Skeletal Muscle—Rare cases of rhabdomyolysis with acute renal failure secondary to myoglobinuria have been reported with LIPTOR and with other drugs in this class. A history of renal impairment may be a risk factor for the development of rhabdomyolysis. Such patients merit closer in the properties of t

Table 1. Drug Interactions Associated with Increased Risk of Myopathy/Rhabdomyolysis

| Interacting Agents | Prescribing Recommendations | | |
|---|---|--|--|
| Cyclosporine | Do not exceed 10 mg atorvastatin daily | | |
| Clarithromycin, itraconazole, HIV protease inhibitors (ritonavir plus saquinavir or lopinavir plus ritonavir) | Caution when exceeding doses > 20mg atorvastatin daily. The lowest dose necessary should be used. | | |

LIPITOR therapy should be temporarily withheld or discontinued in any patient with an acute, serious condition suggestive of a myopathy or having a risk factor predisposing to the development of renal fai secondary to rhabdomyolysis (e.g., severe acute infection, hypotension, major surgery, trauma, severe metabolic, endocrine and electrolyte disorders, and uncontrolled seizures).

condition suggestive of a myopathy or having a risk factor predisposing to the development of renal failure secondary to rhabdomyolysis (e.g., severe acute infection, hypotension, major surgery, trauma, severe metabolic, endocrine and electrolyte disorders, and uncontrolled seizures).

Liver Dysfunction—Statins, like some other lipid-lowering therapies, have been associated with biochemical abnormalities of liver function. Persistent elevations (5.3 times the upper limit of normal [ULN] occurring on 2 or more occasions) in serum transaminases occurred in 0.7% of patients who received LIPITOR in clinical trials. The incidence of these abnormalities was 0.2%, 0.2%, 0.6%, and 2.3% for 10.20, 40, and 80 mg, respectively. One patient in clinical trials developed jaundice. Increases in liver function tests (LFT) in other patients were not associated with jaundice or other clinical signs or symptoms. Upon dose reduction, drug interruption, or discontinuation, transaminase levels returned to or near pretreatment levels without other patients were not associated with jaundice or other clinical signs or symptoms. Upon dose reduction, drug interruption, or discontinuation, transaminase levels returned to or near pretreatment levels without sequelae. Eighteen of 30 patients with persistent LFT elevations continued treatment with a reduced dose of LIPITOR. It is recommended that liver function tests be performed prior to and at 12 weeks following both the initiation of therapy and any elevation of dose, and periodically (e.g., semiannually) thereafter. Liver enzyme changes generally occur in the first 3 months of treatment with LIPITOR. Patients who develop increased transaminase levels should be monitored until the abnormalities resolve. Should an increase in ALT or AST of 3 times ULN persist, reduction of dose or withdrawal of LIPITOR is recommended. LIPITOR should be used with caution in patients who consume substantial quantities of alcohol and/or have a history of liver disease. Active liver disease or unexplained pers

prescribing information].

ADVERSE REACTIONS: The following serious adverse reactions are discussed in greater detail in other sections of the label: Rhabdomyolysis and myopathy [see Warnings and Precautions in full prescribing information]. Liver enzyme abnormalities [see Warnings and Precautions in full prescribing information]. Clinical Trial Adverse Experiences—Because clinical trials are conducted under widely varying condition the adverse reaction rates observed in the clinical studies of a drug cannot be directly compared to rates in the clinical trials of another drug and may not reflect the rates observed in clinical practice. In the LIPTOR not placebo-controlled clinical trial database of 16,066 patients (8755 LIPITOR vs. 7311 placebo, age range 10–33 years, 93% women, 91% Caucasians, 3% Blacks, 2% Asians, 4% other) with a median treatmer duration of 53 weeks, 9.7% of patients on LIPTOR and 9.5% of the patients on placebo discontinued due to adverse reactions regardless of causality. The five most common adverse reactions in patients treated with LIPTOR that led to treatment discontinuation and occurred at a rate greater than placebo were: myallaia (0.7%), diarrhea (0.5%), nausea (0.4%), alanine aminotransferase increase (0.4%), and hepatic enzyme increase (0.4%). The most commonly reported adverse reactions (incidence 2% and greater than placebo vere: myallaigis (8.3%), ethralajis (6.9%), diarrhea (6.8%), pain in extremity (6.0%, and urinary tract infectic (5.7%). Table 2 summarizes the frequency of clinical adverse reactions, regardless of causality, reported in 2-2% and granders of causality (1.5%), diarrhea (6.8%), pain in extremity (6.0%, and urinary tract infectic (5.7%). Table 2 summarizes the frequency of clinical adverse reactions, regardless of causality, reported in 2-2% and granders of the controlled trials.

| LIPITOR and at an incidence greater than placebo regardless of causality (% of patients). | | | | | | | | |
|---|--------------------|-----------------|----------------|----------------|-----------------|-------------------|--|--|
| Adverse Reaction* | Any dose N=8755 | 10 mg N=3908 | 20 mg N=188 | 40 mg N=604 | 80 mg N=4055 | Placebo N=7311 | | |
| Nasopharyngitis | 8.3 | 12.9 | 5.3 | 7.0 | 4.2 | 8.2 | | |
| Arthralgia | 6.9 | 8.9 | 11.7 | 10.6 | 4.3 | 6.5 | | |
| Diarrhea | 6.8 | 7.3 | 6.4 | 14.1 | 5.2 | 6.3 | | |
| Pain in extremity | 6.0 | 8.5 | 3.7 | 9.3 | 3.1 | 5.9 | | |
| Urinary tract infection | 5.7 | 6.9 | 6.4 | 8.0 | 4.1 | 5.6 | | |
| Dyspepsia | 4.7 | 5.9 | 3.2 | 6.0 | 3.3 | 4.3 | | |
| Nausea | 4.0 | 3.7 | 3.7 | 7.1 | 3.8 | 3.5 | | |
| Musculoskeletal pain | 3.8 | 5.2 | 3.2 | 5.1 | 2.3 | 3.6 | | |
| Muscle Spasms | 3.6 | 4.6 | 4.8 | 5.1 | 2.4 | 3.0 | | |
| Myalgia | 3.5 | 3.6 | 5.9 | 8.4 | 2.7 | 3.1 | | |
| Insomnia | 3.0 | 2.8 | 1.1 | 5.3 | 2.8 | 2.9 | | |
| Pharyngolaryngeal pain | 2.3 | 3.9 | 1.6 | 2.8 | 0.7 | 2.1 | | |

Table 2. Clinical adverse reactions occurring in \geq 2% of patients treated with any dose of

Anglo-Scandinavian Cardiac Outcomes Trial (ASCOT)—In ASCOT [see Clinical Studies in full prescribing information] involving 10,305 participants (age range 40–80 years, 19% women; 94.6% Caucasians, 2.6% Africans, 1.5% South Asians, 1.3% mixed/other) treated with LIPITOR 10 mg daily (n=5,168) or placebo (n=5,137), the safety and tolerability profile of the group treated with LIPITOR was comparable to that of the group treated with placebo during a median of 3.3 years of follow-up.

Collaborative Atorvastatin Diabetes Study (CARDS)—In CARDS, Issee Clinical Studies in full prescribing information] involving 2838 subjects (age range 39–77 years, 22% women; 94.3% Caucasians, 2.4% South Asians, 2.3% Afro-Caribbean, 1.0% other! with type 2 clabetes treated with LIPTOR 10 mg daily (n=1,428) or placebo (n=1,410), there was no difference in the overall frequency of adverse reactions or serious adverse reactions between the treatment groups during a median follow-up of 3.9 years. No cases of rhabdomyolysis were reported.

Treating to New Targets Study (TNT)—In TNT [see Clinical Studies in full prescribing information] involving 10,001 subjects (age range 29–78 years, 19% women; 94.1% Caucasians, 2.9% Blacks, 1.0% Asians, 2.0% other) with clinically evident CHD treated with LIPTOR 10 mg daily (n=5006) or LIPTOR 80 mg daily (n=4995), there were more serious adverse reactions and discontinuations due to adverse reactions in the high-dose atorvastatin group (92, 1.8%; 497, 8.9%, respectively) as compared to the low-dose group (69, 1.4%; 404, 8.1%, respectively) during a median follow-up of 4,9 years. Persistent transamisase elevations (≥3 x ULN twice within 4–10 days) occurred in 62 (1.3%) individuals with atorvastatin 10 mg. Elevations of CK (≥ 10 x ULN) were low overall, but were higher in the high-dose atorvastatin treatment group (13, 0.3%) compared to the low-dose atorvastatin group (6, 0.1%).

Incremental Decrease in Endpoints through Aggressive Lipid Lowering Study (IDEAL)—In IDEAL (see Clinical Studies in full prescribing information) involving 8888 subjects (age range 26-80 years, 19% women; 99.3% Caucasians, 0.4% Asians, 0.3% Blacks, 0.04% other) treated with LIPITOR 80 mg/day (n-4439) or simvastatin 20-40 mg daily (n-4449), there was no difference in the overall frequency of adverse reactions or serious adverse reactions between the treatment groups during a median follow-up of 4.8 years.

Stroke Prevention by Aggressive Reduction in Cholesterol Levels (SPARCL)—In SPARCL involving 4731 subjects (age range 21–92 years, 40% women; 93.3% Caucasians, 3.0% Blacks, 0.6% Asians, 3.1% other) without clinically evident CHD but with a stroke or transient ischemic attack (TIA) within the previous 6 months treated with LIPITOR 80 mg (n=2365) or placebo (n=2366) for a median follow-up of 4.9 years, there was a higher incidence of persistent hepatic transaminase elevations (a 3 x ULN twice writin 4–10 days) in the atorvastatin group (0.1%) compared to placebo (0.0%). Diabetes was reported as an adverse reaction in 144 subjects (6.1%) in the atorvastatin group and 89 subjects (3.8%) in the placebo group [see Warnings and Precautions in full prescribing information].

In a post-hoc analysis, LIPITOR 80 mg reduced the incidence of ischemic stroke (218/2365, 9.2% vs. 274/2366, 11.6%) and increased the incidence of hemorrhagic stroke (55/2365, 2.3% vs. 33/2366, 1.4%) compared to placebo. The incidence of fatal hemorrhagic stroke was similar between groups (17 LIPITOR vs. 18 placebo. The incidence of non-fatal hemorrhagic strokes was significantly greater in the atorvastatin group (38 non-fatal hemorrhagic strokes) as compared to the placebo group (16 non-fatal hemorrhagic strokes). Subjects who entered the study with a hemorrhagic stroke appeared to be at increased risk for hemorrhagic stroke [7 (16%) LIPITOR vs. 2 (4%) placebo].

Postmarketing Experience—The following adverse reactions have been identified during postapproval use of LIPITOR. Because these reactions are reported voluntarily from a population of uncertain size, it is not always possible to reliably estimate their frequency or establish a causal relationship to drug exposure.

Adverse reactions associated with LIPITOR therapy reported since market introduction, that are not listed above, regardless of causality assessment, include the following: anaphylaxis, angioneurotic edema, bullous rashes (including erythema multiforme, Stevens-Johnson syndrome, and toxic epidermal necrolysis), rhabdomyolysis, fatique, tendon rupture, hepatic failure, dizziness, memory impairment, depression, and peripheral neuropathy.

Pediatric Patients (ages 10-17 years)—In a 26-week controlled study in boys and postmenarchal girls (n=140, 31% female; 92% Caucasians, 1.6% Blacks, 1.6% Asians, 4.8% other), the safety and tolerability profile of LIPITOR 10 to 20 mg daily was generally similar to that of placebo (see Clinical Studies in plur prescribing information and Use in Special Populations, Pediatric Use in full prescribing information).

OVERDOSAGE: There is no specific treatment for LIPITOR overdosage. In the event of an overdose, the patient should be treated symptomatically, and supportive measures instituted as required. Due to extensive drug binding to plasma proteins, hemodialysis is not expected to significantly enhance LIPITOR clearance.

Please see full prescribing information for additional information about LIPITOR.



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