Celecoxib Receives New Indication, New Warning

BY ALICIA AULT

Contributing Writer

elecoxib, the only cyclooxygenase-2 inhibitor left on the U.S. market, has won an additional approval from the Food and Drug Administration but, as expected, the drug also received a black box warning on the increased risk of cardiovascular events.

The Pfizer Inc. drug was approved for ankylosing spondylitis (AS), a connective

tissue disorder causing inflammation of the spine and large joints that affects about 400,000 Americans, primarily between the ages of 20 and 40 years.

The new warning, a result of an FDA advisory committee's recommendations in February, says that celecoxib (Celebrex) may increase the risk of "thrombotic events, myocardial infarction, and stroke, which can be fatal." The risk may increase with duration of use, according to the warning. The drug is also contraindicated

for treating post-coronary artery bypass graft surgery pain.

The black box warning also highlights an increased risk of "serious gastrointestinal adverse events, including bleeding, ulceration, and perforation of the stomach or intestines, which can be fatal."

According to the drug's label, in two placebo- and active-controlled trials, celecoxib was statistically superior to placebo in global pain, global disease, and functional impairment.

Events for which the LUNESTA incidence was equal to or less than placebo are not listed, but included the following: abnormal dreams, accidental injury, back pain, diarrhea, flu syndrome, myalja, pain, pharyngtis, and rilinitis.

Adverse events that suggest a dose-response relationship in adults include viral infection, dry mouth, dizziness, ballucinations, infection, rash, and unpleasant taste, with this relationship clearest for unpleasant taste.

The following lists the incidence (% placebo, 2 mg, 3 mg, respectively) of treatment-emergent adverse events from combined Phasa 9 placebo-controlled studies of LUNESTA at doses of 1 or 2 mg in elderly adults (ages 65-86). Treatment duration in these trials was 14 days. Data are limited to events that occurred in 2% or more of patients treated with LUNESTA 1 mg (n=72) or 2 mg (n=215) in which the incidence in patients treated with LUNESTA was greater than the incidence in placebo-treated patients!

appendages: pruritus: (1%, 4%, 1%). <u>Special senses:</u> unpleasant taste (0%, 8%, 12%). <u>Unogenial system</u> unnary traci infection (0%, 3%, 0%). Events for which the LUNESTA incidence was equal to or less than placebo are not listed, but included the following: abdominal pain, asthenia, nausea, rash, and comprehense.

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Adverse events that suggest a dose-response relationship in elderly adults include and ornnolence.

Adverse events that suggest a dose-response relationship again clearest for unpleasant taste. These figures cannot be used to predict the incidence of adverse events in the course of usual medical practice because patient characteristics and other factors may differ from those that prevalled in the clinical trials. Similarly, the cited frequencies cannot be compared with figures obtained from other clinical investigations involving different reatments, uses, and investigators.

The cited figures, however, do provide the prescribing physician with some basis for estimating the relative contributions of drug and non-drug factors to the adverse event incidence rate in the population studied.

Other Events Observed During The Premarketing Evaluation OI LUNESTA. Following is a list of modified COSTART terms that reflect treatment-emergant adverse events as defined in the introduction to the ADVERSE REACTIONS section and reported by approximately 1559 subjects treated with LUNESTA at doses in the range of 1 to 3.5 mighty during Phase 2 and 3 clinical trials throughout the United States and Canada. All reported events are included except those already listed here or listed elsawhere in labeling, minor events common in the general population, and events unlikely to be drug-related. Although the events reported occurred during treatment with LUNESTA, they were not necessarily caused by it.

Events are listed in order of decreasing frequency according to the following definitions: frequent adverse events are those that occurred on one or more occasions in at least 17.000 patients but in all teast 17.000 patients, read related by it.

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vesiculobulous rash.

DRUG ABUSE AND DEPENDENCE

Controlled Substance Class: LUNESTA is a Schedule IV controlled substance under the Controlled Substances Act. Other substances under the same classification are benzodiazepien lens and the nonbanzodiazepien hyponolics zalephon and zolpidem. While eszopiclone is a hyponoic agent with a chemical structure unrelated to benzodiazepines, it shares some of the pharmacologic properties of the benzodiazepines.

azepines, it shares some of the pharmacologic properties of the benzodiazepines. Abuse, Dependence, and Tolerance Abuse and Dependence: In a study of abuse liability conducted in individuals with known histories of benzodiazepine abuse, eszopicione at doses of 6 and 12 mg pro-duced euphoric effects similar to those of diazepam 20 mg. In this study, at doses 2-fold or greater than the maximum recommended doses, a dose-related increase in reports of ammesia and hallucinations was observed for both LUNESTA and diazepam.

reports of amnesia and hallucinations was observed for both LUNESTA and diazepam. The clinical trial experience with LUNESTA revealed no evidence of a serious withdrawal syndrome. Nevertheless, the following adverse events included in DSM-IV criteria for uncomplicated sedative/hyprotic withdrawal were reported during clinical trials following placebo substitution occurring within 48 hours following the last LUNESTA treatment: anxiety, abnormal dreams, nausea, and upset stormach. These reported adverse events occurred at an incidence of 2% or less. Use of benzodiazepines and similar agents may lead to physical and psychological dependence. The risk of abuse and dependence increases with the dose and curation of treatment and concomitant use of other psychoactive drugs. The risk is also greater for patients who have a history of alcohol or drug abuse or history of psychiatric disorders. These patients should be under careful surveillance when receiving LUNESTA or any other hyprotic.

LUNESTA or any other hypnotic.

Tolerance: Some loss of efficacy to the hypnotic effect of benzodiazepines and benzodiazepine-like agents may develop after repeated use of these drugs for a few weeks.

No development of tolerance to any parameter of sleep measurement was observed
over six months. Tolerance to the efficacy of LUNESTA3 mg was assessed by 4-week
objective and 5-week subjective measurements of time to sleep onset and sleep maintenance for LUNESTA in a placebo-controlled 44-day study, and by subjective assessments of time to sleep onset and WASO in a placebo-controlled study for 6 months.

OVERDOSAGE

OVERDOSAGE
There is limited premarketing clinical experience with the effects of an overdosage of LUNESTA. In clinical trials with eszopiclone, one case of overdose with up to 36 mg of eszopiclone was reported in which the subject fully recovered. Individuals have fully recovered from racemic zopiclone overdoses up to 340 mg (56 times the maximum recommended dose of eszopiclone).

maximum recommended dose of eszopicione).

Signs And Symptoms: Signs and symptoms of overdose effects of CNS depressants can be expected to present as exaggerations of the pharmacological effects noted in preclinical testing. Impairment of consciousness ranging from somnolence to coma has been described. Rare individual instances of fatal outcomes following overdose with receniic zopicione have been reported in European postmarketing reports, most often associated with overdose with other CNS-depressant agents.

orten associated with overdose with other CNS-depressant agents. Recommended Treatment: General symptomatic and supportive measures should be used along with immediate gastric lavage where appropriate. Intravenous fluids should be administered as needed, Flumazenil may be useful. As in all cases of drug overdose, respiration, pulse, blood pressure, and other appropriate signs should be monitored and general supportive measures employed. Hypotension and CNS depression should be monitored and treated by appropriate medical intervention. The value of dialysis in the treatment of overdosage has not been determined. Poison Control Center. As with the management of all overdosage, the possibility of multiple drug ingestion should be considered. The physician may wish to consider contacting a polson control center for up-to-date information on the management of hypnotic drug product overdosage.

Theodore Fields, M.D., of Weill Medical College of Cornell University, noted that it's preferable to start patients on analgesics, but that if there's swelling, anti-inflammatories often have to be used. There are a number of "patients with ankylosing spondylitis where it makes sense, in spite of the known risks, to give them NSAIDs or COX-2s," said Dr. Fields, who is also clinical director of the Early Arthritis Cen-

tients who have a gastrointestinal intolerance to other NSAIDs.

Both say that patients have become more

That does not mean physicians have no

Dr. Reveille said he monitors patients on

have dropped steeply from a year ago. In the first half of 2005, worldwide celecoxib sales totaled \$813 million, a decline of 46% from the previous year.

Lunesta

BRIEF SUMMARY

CONTRAINDICATIONS

WARNINGS

Because sleep disturbances may be the presenting manifestation of a physical and/or psychiatric disorder, symptomatic treatment of insomma to remit after 7 to 10 days of treatment may indicate the presence of a primary psychiatric and/or medical illness that should be evaluated. Worsening of insommia or the emergence of new thinking or behavior abnormalities may be the consequence of an unrecognized psychiatric or physical disorder. Such findings have emerged during the course of treatment with sedative/hypnotic drugs, including LUNESTA. Because some of the important adverse effects of LUNESTA appear to be dose-related, it is important to use the lowest possible effective dose, sepecially in the elderly (see DOSAGE AND ADMINISTANTION in the Full Prescribing Information).

THATION In the Full Prescribing Information).

A variety of abnormal thinking and behavior changes have been reported to occur in association with the use of seadure/inynotics. Some of these changes may be characterized by decreased inhibition (e.g., aggressiveness and extroversion that seem out of charactery, similar to effects produced by alcohol and other CNS depressants. Other reported behavioral changes have included bizarre behavior, agritation, hallociations, and depersonalization. Annesse and other neuropsychiatric symptoms may occur unpredictably. In primarily depressed patients, worsening of depression, including suicidal thinking, has been reported in association with the use of sedative/hypnotics.

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It can rarely be determined with certainty whether a particular instance of the abnormal behaviors listed above are drug-induced, spontaneous in origin, or a result of an underlying psychiatric or physical disorder. Nonetheless, the emergence of any new behavioral sign or symptom of concern requires careful and immediate evaluation. Following rapid dose decrease or abrust discontinuation of the use of seature/hypnotics, there have been reports of signs and symptoms similar to those associated with withdrawal from other CNS-depressant drugs (see DRUG ABUSE AND DEPENDENCE). LUNESTA, like other hypnotics, has CNS-depressant effects. Because of the rapid onset of action, LUNESTA should only be ingested immediately prior to going to bed or after the patient has gone to bed and has experienced difficulty falling asleep. Patients receiving LUNESTA should be cautioned against engaging in hazardous occupations requiring complete mental alerhess or motor coordination (e.g., operating machinery or driving a motor vehicle) after ingesting the drug, and be cautioned about potential impairment of the performance of such activities on the day following ingestion of LUNESTA. LUNESTA, like other hypnotics, may produce additive on CNS-depressant effects when coadministered with other psychotropic medications, anticonvulsants, antihistamines, ethanol, and other drugs that themselves produce CNS depressant effects when coadministered with other CNS-depressant agents, because of the potentially additive effects.

PRECAUTIONS
General
Timing Of Drug Administration: LUNESTA should be taken immediately hefore healtime.

Timing Of Drug Administration: LUNESTA should be taken immediately before bedtime. Taking a sedative/hypnotic while still up and about may result in short-term memory impairment, hallucinations, impaired coordination, dizziness, and lightheadedness.

impairment, hallucinations, impaired coordination, dizziness, and lightheadedness.

Use In The Elderly And/Or Debilitated Patients: Impaired motor and/or cognitive performance after repeated exposure or unusual sensitivity to sedative/hypnotic drugs is a concern in the treatment of elderly and/or debilitated patients. The recommended starting dose of LUNESTA for these patients is 1 mg (see DOSAGE AND ADMINISTRATION in the Full Prescribing Information).

Use In Patients With Concomitant Illness: Clinical experience with eszopiclone in patients with diseases or conditions that could affect metabolism or hemodynamic responses.

responses.

A study in healthy volunteers did not reveal respiratory-depressant effects at doses 2.5-fold higher (7 mg) than the recommended dose of excepcione. Caution is advised, however, if LUNESTA is prescribed to patients with compromised respiratory function. The dose of LUNESTA should be reduced to 1 mg in patients with severe hepatic impairment, because systemic exposure is doubled in such subjects. No dose adjustment appears necessary for subjects with mild or moderate hepatic impairment, dose adjustment appears necessary in subjects with any degree of renal impairment, since less than 10% of exceptione is excreted unchanged in the urine.

since less than 10% of eszopicione is excreted unchanged in the urine.

The dose of LUNESTA should be reduced in patients who are administered potent inhibitors of CYPSA4, such as ketoconazole, while taking LUNESTA. Downward dose adjustment is also recommended when LUNESTA is administered with agents having known CNS-depressant effects.

Use In Patients With Depression: Sective/hypnotic drugs should be administered with caution to patients exhibiting signs and symptoms of depression. Suicidal tendencies may be present in such patients, and protective measures may be required. Intertional overdoes is more common in this group of patients, therefore, the state amount of drug that is feasible should be prescribed for the patient at any one time. Information For Patients: Patient Information is printed in the complete prescribing information.

Laboratory Tests: There are no specific laboratory tests recommended. Drug Interactions

Ethanol. An additive effect on psychomotor performance was seen with coadministra-tion of eszopiclone and ethanol 0.70 g/kg for up to 4 hours after ethanol administration. Paroxetine: Coadministration of single doses of eszopiclone 3 mg and paroxetine 20 mg daily for 7 days produced no pharmacokinetic or pharmacodynamic interaction. 20 mg daily for 7 days produced no pharmacokinetic or pharmacodynamic interaction.

Lorazepam: Coadministration of single doses of eszopicione 3 mg and lorazepam and did not have clinically relevant effects on the pharmacodynamics or pharmacokinetics of either drug.

Dianzapine: Coadministration of eszopicione 3 mg and olanzapine 10 mg produced a decrease in DSST scores. The interaction was pharmacodynamic; there was no alteration in the pharmacokinetics of either drug.

Drugs That Inhibit CYP3A4 (Ketoconazule): CYP3A4 is a major metabolic pathway for administration of eszonicione. The AUC of eszopicione was increased 2.2-fold by coad-

mination of eszopicione. The AUC of eszopicione was increased 2.2-fold by coad-nistration of ketoconazole, a potent inhibitor of CYP3A4, 400 mg daily for 5 days, and t_{1,7} were increased 1.4-fold and 1.3-fold, respectively. Other strong inhibitors CYP3A4 (e.g. traconazole, clarificonycin pefazodone troleandomycin, ritoravir

ministration of ketoconazole, a potent implicator in the Tarsh, "Nou me warm," inhibitors of CVP3A4 (e.g., tiraconazole, clarithromycin, nefazodone, troleandomycin, ritonavir, netlinavir) would be expected to behave similarly. Purgs That Induce CVP3A4 (Rifampicin): Racemic zopicione exposure was decreased 80% by concomitant use of irfampicin, a potent inducer of CVP3A4. A similar effect would be expected with eszopicione.

Drugs Highth Bound To Plasma Protein: Eszopicione is not highly bound to plasma proteins (152-56% bound); therefore, the disposition of eszopicione is not expected to be sensitive to alterations in protein binding. Administration of eszopicione a may be a patient taking another drug that is highly protein-bound would not be expected to cause an alteration in the free concentration of either drug.

Drugs With a Narrow Therapeutic Index

Dramxim: A sincle dose of eszopicione 3 mg did not affect the pharmacokinetics of

Digoxin: A single dose of eszopiclone 3 mg did not affect the pharmacokinetics of digoxin measured at steady state following dosing of 0.5 mg twice daily for one day and 0.25 mg daily for the next 6 days.

and 0.25 mg daily for the fiext 6 days. Warfarin: Eszepicione 3 mg administered daily for 5 days did not affect the pharma-cokinetics of (R)- or (S)-warfarin, nor were there any changes in the pharmacodynamic profile (prothrombin time) following a single 25-mg oral dose of warfarin. Carcinogenesis, Mutagenesis, Impairment of Fertility Carcinogenesis: In a carcinogenicity study in Sprague-Dawley rats in which eszopicione was given by oral gavage, no increases in tumors were seen; plasma levels (AUC) of eszopicione at the highest dose used in this study (16 mg/kg/day) are estimated to be 80 (females) and 20 (males) times those in humans receiving the maximum recommended human dose (MRHD). However, in a carcinogenicity study in

Sprague-Dawley rats in which racemic zopicione was given in the diet, and in which plasma levels of eszopicione were reached that were greater than those reached in the above study of eszopicione, an increase in mammary gland adenocarcinomas in females and an increase in through a diamomas and carcinomas in males were seen at the highest dose of 100 mg/kg/day, Plasma levels of eszopicione at this dose are estimated to be 150 (females) and 70 (males) times those in humans receiving the MRHD. The mechanism for the increase in mammary adenocarcinomas is unknown. The increase in thyroid tumors is thought to be due to increased levels of TSH secondary to increased metabolism of circulating thyroid hormones, a mechanism that is not considered to be relevant to humans.

In a carcinogenicity study in B6C3F1 mice in which racemic zopicione was given in the diet, an increase in pulmonary carcinomas and carcinomas plus adenomas in females and an increase in skin fibromas and sacromas in males were seen at the highest dose of 100 mg/kg/day, Plasma levels of eszopicione at this dose are estimated to be 8 (females) and 20 (males) times those in humans receiving the MRHD. The skin tumors were due to skin lesions induced by aggressive behavior, a mechanism that is not relevant to humans. A carcinogenicity study was also performad in which CD-1 mice were given eszopicione at doses up to 100 mg/kg/day by oral garage; although this study did not reach a maximum tolerated dose, and was thus inacequate for overall assessment of carcinogenic potential, no increases in either pulmonary or skin tumors were seen at doses producing plasma levels of eszopicione estimated to be 90 times those in humans receiving the MRHD—l.e., 12 times the exposure in the racemate study.

Eszopicione did not increase tumors in a p53 transgenic mouse bioassay at oral doses up to 300 mg/kg/day.

doese up to duo mg/kg/day.
Mutagenesis: Escopicione was positive in the mouse lymphoma chromosomal aberration assay and produced an equivocal response in the Chinese hamster ovary cell chromosomal aberration assay, it was not mutagenic or clastogenic in the bacterial Ames gene mutation assay, in an unscheduled DNA synthesis assay, or in an in vivo mouse bone marrow micronucleus assay.
(S)-N-desmethyl zopicione, a metabolite of eszopicione, was positive in the Chinese hamster ovary cell and human lymphocyte chromosomal aberration assays. It was negative in the bacterial Ames mutation assay, in an in vitro xP-positabeling DNA adduct assay and in an in vivo mouse bone marrow chromosomal aberration and

adduct assay, and in an in vivo mouse bone marrow chromosomal aberration and

adduct assay, and in an in vivo mouse bone marrow chromosomal aberration and micronucleus assay.

Impairment OI Fertifity: Eszopicione was given by oral gavage to male rats at doses up to 45 mg/kg/day from 4 weeks premating through matting and to female rats at doses up to 180 mg/kg/day from 2 weeks premating through day 7 of pregnancy. An additional study was performed in which only females were treated, up to 180 mg/kg/day. Eszopicione decreased fertifity, probably beause of effects in both males and females. with no females becoming pregnant when both males and females were treated with the highest dose; the noe-effect dose in both sexes was 5 mg/kg (16 times the MRHD on a mg/m² basis). Other effects included increased preimplantation loss (noe-effect dose 25 mg/kg), and decreases in sperm number and motility and increases in morphologically abnormal sperm (no-effect dose 5 mg/kg).

phologically abnormal sperm (no-effect dose 5 mg/kg).
Pregnancy Category C: Eszopiclone administered by oral gavage to pregnant rats and rabbits during the period of organogenesis showed no evidence of testratogenicity up to the highest looses tested (250 and 16 mg/kg/day in rats and rabbits, respectively; these doses are 800 and 100 times, respectively, the maximum recommended human dose (MRHOI) on a mg/m² basis). In the rat, slight reductions in fetal weight and evidence of developmental delay were seen at maternally toxic doses of 125 and 50 mg/kg/day, but not at 62.5 mg/kg/day (200 times the MRHO on a mg/m² basis). Eszopiclone was also administered by oral gavage to pregnant rats throughout the pregnancy and lactation periods at doses of up to 180 mg/kg/day. Increased porsimplantation less, decreased postnatal pur velopits and survival, and increased pursarile response were seen at all doses; the lowest dose tested, 60 mg/kg/day, is 200 times the MRHO on a mg/m² basis. These doses did not produce significant maternal toxicity. Eszopiclone had no effects on other behavioral measures or reproductive function in the offspring.

There are no adequate and well-controlled studies of eszopiclone in pregnant women.

There are no adequate and well-controlled studies of eszopiclone in pregnant women. Eszopiclone should be used during pregnancy only if the potential benefit justifies the potential risk to the fetus.

**Labor And Delvery: LUNESTA has no established use in labor and delivery.

Nursing Motters: It is not known whether LUNESTA is excreted in human milk, Because many drugs are excreted in human milk, caution should be exercised when LUNESTA is administered to a nursing woman. Pediatric USe: Safety and effectiveness of eszopiclone in children below the age of 18 have not been established.

have not been established.

Gentarito Use, A total of 287 subjects in double-blind, parallel-group, placebo-controlled clinical trials who received eszopictone were 65 to 86 years of age. The overell plattent of adverse events for elderly subjects (median age — 17 years) in 2-week studies with nighttime dosing of 2 mg eszopictone was not different from that seen in younger adults. LUNESTA 2 mg exhibited significant reduction in sleep latency and improvement in sleep maintenance in the elderly population.

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ADVERSE REACTIONS

The premarketing development program for LUNESTA included exceptione exposures in patients and/or normal subjects from two different groups of studies: approximately 400 normal subjects in clinical pharmacology/pharmacokinetic studies, and approximately 1509 patients in placeboc-controlled chinical effectiveness studies, corresponding to approximately 263 patient-exposure years. The conditions and duration of treatment with LUNESTA varied greatly and included (in overlapping categories) open-label and double-blind phases of studies, inpatients and outpatients, and short-term and longer-term exposure. Adverse reactions were assessed by collecting adverse events, results of physical examinations, vital signs, weights, laboratory analyses, and ECGs.

Adverse events during exposure were obtained primarily by general inquiry and recorded by clinical investigators using terminology of their own choosing. Consequently, it is not possible to provide a meaningful estimate of the proportion of individuals experiencing adverse events without first grouping similar types of events into a smaller number of standardized event categories. In the tabulations that follow, COSTART terminology has been used to classify reported adverse events of experiencing adverse events.

The stated frequencies of adverse events represent the proportion of individuals event was considered treatment-emergent if it occurred for the first time or worsened while the patient was receiving therapy following baseline evaluation.

Adverse Findings Observed in Placebo-Controlled Trials

Adverse Events Resulting in Discontinuation of Treatment. In placebo-controlled, parallel-group clinical trials in the elderly, 3.8% of 208 patients who received 1 mg LUNESTA and 1.4% of 72 patients who received 2 mg LUNESTA

received 3 ing CURSIA discontinued due to an averse event, no event that resulted in discontinuation occurred at a rate of greater than 2%.

Adverse Events Observed at an Incidence of .22% in Controlled Trials. The following lists the incidence (%) placebo, 2 mg, 3 mg, respectively) of treatment-emergent adverse events from a Phase 9 placebo-controlled study of LUNESTA at doses of 2 of 3 mg in non-eldedry adults. Treatment duration in this trial was 44 days. Data are limited to adverse events that occurred in 2% or more of patients treated with LUNESTA a mg (n=-04) or 3 mg (n=-05) in which the incidence in patients treated with LUNESTA as greater than the incidence in placebo-treated patients (n=-99). Body as a whole; headache (13%, 21%, 17%), viral infection (1%, 3%, 3%), objective system; dry mount (3%, 5%, 7%), vSysepsia (4%, 4%, 5%), naisea (4%, 5%, 4%), vomiting (1%, 3%, 0%). Mervous system; anxiety (0%, 3%, 1%), normous (0%, 4%, 1%), soft of the control of the

SEPRACOR © 2005 SEPRACOR INC., MARLBOROUGH, MA 01752 ter at the Hospital for Special Surgery in The struggle sometimes comes in deciding between celecoxib or an NSAID such as naproxen, said physicians. John Reveille, M.D., professor of medicine and director of rheumatology at the University of Texas Health Science Center in Houston, said he'd use celecoxib in pa-

Dr. Fields prefers to use celecoxib in patients who have a higher than average risk of GI complications, but lower than average cardiovascular risk.

Theoretically, because AS patients tend to be younger, the risk of cardiovascular complications is lower, Dr. Fields said in an interview. But, there's also some evidence that patients with inflammatory conditions, such as lupus and rheumatoid arthritis, are at higher risk for atherosclerosis, he said, adding that although the same has not been proven for AS, it is hypothetically possible.

Both Dr. Fields and Dr. Reveille said they'd avoid using celecoxib in patients who have cardiovascular disease or who may be at higher risk—those who are older, male, diabetic, or hypertensive. Neither physician is a paid consultant for any drug

The new Celebrex label recommends that it be prescribed at the lowest effective dose for the shortest duration. For AS, the recommended dose is 200 mg daily; if there is no response after 6 weeks, the dose should be titrated to 400 mg daily, according to Pfizer. If there is still no response after 6 weeks on that dosage, other treatment options should be considered.

Dr. Fields said he starts patients on 200 mg daily, which he says "is a dose that can be anti-inflammatory." Dr. Reveille begins patients on a dosage of 100 mg daily and moves up to 200 mg if there is no response.

nervous about celecoxib than physicians.

concerns. "There's no question that I'm watching patients more closely, talking to them about it, and asking if anything new has evolved in their history," Dr. Fields said, adding that he regularly monitors patients for cardiovascular signs and always considers whether it's possible to shorten therapy or make it intermittent.

any NSAID or COX-2, including running liver function and complete blood counts at least twice a year.

AS is the sixth approved indication for celecoxib in the United States, but sales