Duloxetine Effective for Fibromyalgia in Women

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VANCOUVER, B.C. — Duloxetine is a safe and effective treatment for fibromyalgia symptoms in both depressed and nondepressed women, Lesley Arnold, M.D., reported at the annual meeting of the American Psychosomatic Society.

Duloxetine (Cymbalta) is approved for the treatment of both major depression and diabetic neuropathic pain. The drug's

efficacy in treating both pain and depression—which often co-occur in fibromyalgia—is probably due to its dual action as a selective serotonin and norepinephrine reuptake inhibitor, said Dr. Arnold, a psychiatrist who is director of women's health research at the University of Cincinnati.

In one of two 12-week studies funded by Lilly Research Laboratories, a total of 354 adult women who met the American College of Rheumatology's criteria for primary fibromyalgia were randomized to receive 60 mg of duloxetine once a day (118), 60 mg twice daily (116), or placebo (120).

Significant differences in the Brief Pain Inventory (BPI) average 24-hour pain score and the Fibromyalgia Impact Questionnaire (FIQ) were seen within 1 week in both the 60 mg/day and 120 mg/day duloxetine groups compared with placebo, with no significant difference between the two dosages.

In the low- and high-dose groups, 41% of patients experienced a 50% reduction in

overall pain, compared with 23% of patients on placebo, Dr. Arnold reported.

Significant improvements over placebo were also seen in the FIQ total, pain, fatigue, and restfulness upon awakening scores; in the mean tender point threshold and number of tender points; in the Clinical Global Impression (CGI) and Patient Global Impression of Improvement (PGI) scores; in other BPI subscale measures of pain severity and interference; and in several quality of life and functional measures.

This study replicated several findings from a previously published trial of 207 fibromyalgia patients that included a small number of men. Dr. Arnold presented the findings of both trials together in a poster at the meeting.

In the earlier study, 104 patients (89% women) were randomized to 120 mg/day of duloxetine, and 103 (89% women) to placebo. Duloxetine patients improved significantly more than did placebo-treated patients on the FIQ total score, but not significantly more on the FIQ pain score (Arthritis Rheum. 2004;50:2974-84).

Duloxetine-treated patients also had significant reductions compared with placebotreated patients in BPI scores for average

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pain severity and interference from number of tender points, and FIQ stiffness, as well as several other fibromyalgia-specific and quality of life measures. The differences were only significant women, but the

number of men was quite small, Dr. Arnold noted.

Major depression was present in approximately 40% of the subjects in the earlier single-dose study and in about onefourth of the subjects in the two-dose study. In both studies, there were no differences between depressed and nondepressed patients in duloxetine efficacy in alleviating pain and fibromyalgia symptoms, suggesting that these effects are not simply due to an improvement in mood, she noted.

In the first study, duloxetine was significantly more likely than placebo to be associated with side effects including constipation, dry mouth, insomnia, and a small mean increase in heart rate. These were typically mild to moderate in severity. Also in that study, anxiety was reported significantly less often with duloxetine than with placebo.

In the more recent study, nausea, dry mouth, constipation, diarrhea, somnolence, decreased appetite and weight, and a small mean increase in systolic and diastolic blood pressure were among the side effects reported more frequently by duloxetine-treated patients than by those on placebo. These side effects were also generally mild to moderate in severity. In all, the drug was safely administered and well tolerated, Dr. Arnold said.

BRIEF SUMMARY OF PROCRIT® PRESCRIBING INFORMATION FOR THE TREATMENT OF ANEMIA IN CHRONIC RENAL FAILURE PATIENTS NOT ON DIALYSIS

PROCRIT® Epoetin alfa FOR INJECTION

FOR FULL PRESCRIBING INFORMATION FOR ALL INDICATIONS, REFER TO THE $\it Physicians'$ desk references

Non-dalysis patients. Non-dalysis patients. Whon-dalysis patients with symptomatic anemia considered for therapy should have a hemoglobin less than 10 g/dl.

PROCRIT* is not intended for patients who require immediate correction of severe anemia. PROCRIT* may obviate the need for maintenance transfusions but is not a substitute for emergency transfusion.

te for emergency transfusion.

To initiation of therapy, the patient's iron stores should be evaluated. Transferrin artion should be at least 20% and ferritin at least 100 ng/mL. Blood pressure should adequately controlled prior to initiation of PROCRIT® therapy, and must be closely indired and controlled during therapy.

PROCRITS should be administered under the guidance of a qualified physician (see DOSAGE AND ADMINISTRATION in full Prescribing Information).

hypersensitivity to mammalian cell-derived products; 3. known hypersensitivity war Abbumin (Human).

WARNINGS

Prediatric Use

The multidose preserved formulation contains benzyl alcohol. Benzyl alcohol has been reported to be associated with an increased incidence of neurological and other complications in premature infants which are sometimes fatal.

Thrombotic Events and Increased Mortality

A randomized, prospective trial of 1265 hemodialysis patients with clinically evident cardiac disease (ischemic heart disease or congestive heart failure) was conducted in which patients vere assigned to PROCRIT treatment targeted to a maintenance hematocrit of either 42 ± 3% or 30 ± 3%. Increased mortality was observed in 634 patients randomized to a target hematocrit of 42% [22] details (35% mortality), Increased mortality observed in these studies is unknown, however, the incidence of non-fatal myocardial infarctions (3.1% vs 2.3%), vascular access thromboss (39% vs 2.9%), and all other thrombotic events (22% vs 18%) were also higher in the group randomized to a theive a hematocrit of 42%. Increased mortality was also observed in a randomized placebo-controlled study of PROCRIT* in adult patients who did not have CRF who were undergoing coronary artery bypass surgery (7 deaths in 126 patients randomized by PROCRIT* vias no deaths among 55 patients receiving placebo). Four of these deaths occurred during the period of study drug administration and all four deaths were associated with thrombotic events. While the extent of the population affected is unknown, in patients at risk for thrombotic events. While the extent of the population affected is unknown, in patients at risk for thrombotic events. While the extent of the population affected is unknown, in patients at risk for thrombotic events. While the extent of the population affected is unknown, in patients at risk for thrombotic events. While the extent of the population affected is unknown, in patients at risk for thrombotic events. While the extent of the populat

the anticipated benefits of PROCRIT* treatment should be weighed against the potential for increased risks associated with therapy.

In a randomized, prospective trial conducted with another Epoetin alfa product, in 939 women with metastatic carcinoma of the breast who were receiving chemotherapy, patients were assigned to receive either Epoetin alfa or placebo for up to a year, in a weekly schedule, with the primary goal of showing improved survival and improved quality of life in the Epoetin alfa treatment arm. This study utilized a treatment strategy designed to maintain hemoglobin levels of 12 to 14 g/dt. (hematocrit 36 to 42%). Increased mortality in the first 4 months after randomization was observed among 469 patients who received placebo [16 deaths (3.4% mortality)]. In the first four months of the study, the incidence of fatal thrombotic vascular events (1.1% vs. 0.2%) and eath attributed to disease progression (6.0% vs. 2.8%) were both higher in the group randomized to receive Epoetin alfa as compared to placebo. Based on Kaplan-Meier estimates, the proportion of subjects surviving a 12 months after randomization was lower in the Epoetin alfa group than in the placebo group (70% vs. 75%), p. e. 0.012, p. and. However, cliable comparison scannot be made concerning the effect of Epoetin alfa on overall time to disease progression, progression-free survival, and overall survival.

Pure Red Cell Aplasia

in patients with CRF treated with PROCRIT*.

Special care should be taken to closely monitor and aggressively control blood pressure in patients treated with PROCRIT*, Patients should be advised as to the importance of compliance with arithypertensive therapy and dietary restrictions. If blood pressure is difficult to control by initiation of appropriate measures, the hemoglobin may be reduced by decreasing or withholding the close of PROCRIT*. A clinically significant decrease in hemoglobin may not be observed for several weeks.

It is recommended that the does of PROCRIT* be decreased if the hemoglobin increase exceeds 1 gdfL in any 2-week period, because of the possible association of excessive rate of rise of hemoglobin with an exacerbation of hyperfension. In CRF patients on hemodlayis with clinically evident ischemic heart disease or congestive heart failure, the hemoglobin should be managed carefully, not to exceed 12 g/dL (see THROMBOTIC EVENTS).

es: Seizures have occurred in patients with CRF participating in PROCRIT® clinical

In adult patients on dialysis, there was a higher incidence of seizures during the first 90 days of therapy (occurring in approximately 2.5% of patients) as compared with later time

ure receiving PROCRIT® therapy with the goal of reaching a normal hematocrit (42%) compared to a target hematocrit of 30%. Patients with pre-existing cardiovascular ease should be monitored closely.

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PRECAUTIONS

The parenteral administration of any biologic product should be attended by appropriate precautions in case allergic or other untoward reactions occur (see CONTRAINDICATIONS). In clinical trials, while transient rashes were occasionally observed concurry with PROCRIT* therapy, no serious allergic or anaphylactic reactions were reported (see ADVERSE REACTIONS) for more information regarding allergic reactions.

The safety and efficacy of PROCRIT* therapy have not been established in patients with a known history of a seizure disorder or underlying hematologic clisease (eg, sickle cell anemia, myelodysplastic syndromes, or hypercoagulable disorders'). In some female patients, menses have resumed following PROCRIT* therapy, the possibility of prepanny; should be discussed and the need for contraception evaluated.

Blood pressure and hemoglobin should be monitored no less frequently than for patients.

Drug Interactions: No evidence of interaction of PROCRIT® with other drugs was observed in the course of clinical trials.

benefit justifies the potential risk to the fetus.

In studies in female rats, there were decreases in body weight gain, delays in appearance of adominal hair, delayed regidl opening, delayed ossification, and decreases in the number of caudal vertebrae in the F1 fetuses of the 500 Units/kg group, in female rats treated // there was a trend for slightly increased fetal versage at doses of 100 and 500 Units/kg. PROCRIT® has not shown any adverse effect at doses as high as 500 Units/kg in pregnant rabbits (from day 6 to 18 of gestation).

Nursing Mothers: Postnatal observations of the live offspring [F1 generation) of female rats treated with PROCRIT® during gestation and lactation revealed no effect of PROCRIT® at doses of up to 500 Units/kg. There were, however, decreases in body weight gain, delays in appearance of abdominal hair, veilid opening, and decreases in the number of caudal vertebrae in the F1 fetuses of the 500 Units/kg group. There were no PROCRIT®-related effects on the F2 generation fetuses.

exalieve and maintain the target hematocrit (See DOSAGE AND ADMINISTRATION).

Insufficient numbers of patients age 65 or older were enrolled in clinical studies of PROCRIT® for the treatment of anemia associated with pre-dialsysis chronic renal failure, cancer chemotherapy, and Zidovudine-treatment of HIV infection to determine whether they respond differently from younger subjects.

Laboratory Monitoring: The hemoglobin should be determined twice a week until it has stabilized in the suggested target range and the maintenance dose has been established. After any dose adjustment, the hemoglobin should also be determined twice webby at least 2 to 6 weeks until it has been determined that the hemoglobin has stabilized in response to the dose change. The hemoglobin should then be monitored at regular intervals.

phase of the studies: Seizure 1.1%, 1.1%; CVA/TIA 0.4%, 0.6%; MI 0.4%, 1.1%, Death 0%, 1.7%.

obese has not been determined. Doses of up to 1500 Units/kg TIW for 3 to 4 weeks have been administered to adults without any direct toxic effects of PROCRIT® itself. Therapy with PROCRIT® can result in polycythemia if the hemoglobin is not carefully monitored and the dose appropriately adjusted. If the suggested target range is exceeded, PROCRIT® may be temporarily withheld until the hemoglobin returns to the suggested target range; PROCRIT® therapy may then be resumed using a lower dose (see DOSAGE AND ADMIN-ISTRATION in full Prescribing Information). If polycythemia is of concern, philebotomy may

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