Sexual Function Spared in Pelvic Floor Disorders

BY DAMIAN MCNAMARA

HOLLYWOOD, FLA. — Women with a pelvic floor disorder do not experience significantly diminished rates of sexual activity compared with unaffected women, based on a study of 505 women older than 40 years.

Only the desire component of the Female Sexual Function Index (FSFI) was significantly lower among women with a pelvic floor disorder, suggesting that there was no notable impact on arousal, lubrication, orgasm, satisfaction, or pain, Dr. Tola B. Omotosho said at the annual meeting of the American Urogynecologic Society.

'Sexual health is an essential component of a woman's overall well-being,"

However, "there remains limited and conflicting information about the impact of pelvic floor disorders on sexual health and well-being," Dr. Omotosho said.

Dr. Omotosho and her Fellows' Pelvic Research Network colleagues recruited 505 women older than 40 years from September 2007 to April 2009. The cohort included 308 urogynecology patients with a pelvic floor disorder and 197 general gynecology patients without such a disorder.

Participants came from 11 clinical sites in the United States.

Women in the pelvic floor disorder group were older, with a mean age of 56, vs. 52 years in the unaffected group. Although mean parity also was significantly higher in affected women (2.6 vs. 2.1), only age remained significantly different after multivariate analysis adjustment.

There were no significant differences

 $\textbf{SYMBICORT}^{\textcircled{\tiny{\texttt{0}}}} \ (\textbf{budesonide/formoterol fumarate dihydrate}) \ \textbf{Inhalation Aerosol}$

Beta-Adrenergic Receptor Blocking Agents
Beta-Blockers (including eye drops) may not only block the pulmonary effect of beta-agonists, such as formoterol, a component of SYMBICORT, but may produce severe bronchospasm in patients with asthma. Therefore, patients with asthma should not normally be treated with beta-blockers. However, under certain circumstances, there may be no acceptable alternatives to the use of beta-adrenergic blocking agents in patients with asthma. In this setting, cardioselective beta-blockers could be considered, although they should be administered with caution

The ECG changes and/or hypokalemia that may result from the administration of non-potassium-sparing diuretics (such as loop or thiazide diuretics) can be acutely worsened by beta-agonists, especially when the recommended dose of the beta-agonist is exceeded. Although the clinical significance of these effects is not known, caution is advised in the coadministration of SYMBIOORT with non-potassium-sparing diuretics.

Pregnancy
Teratogenic Effects: Pregnancy Category C.
There are no adequate and well-controlled studies of SYMBICORT in pregnant women. SYMBICORT was teratogenic and embryocidal in rats. Budesonide alone was teratogenic and embryocidal in rats and rabbits, but not in humans at therapeutic doses. Formoterol fumarate alone was teratogenic in rats and rabbits. Formoterol fumarate was also embryocidal, increased pup loss at birth and during lactation, and decreased pup weight in rats. SYMBICORT should be used during pregnancy only if the potential benefit justifies the potential risk to the fetus.

STIMBLOWN
In a reproduction study in rats, budesonide combined with formoterol fumarate by the inhalation route at doses approximately 1/7 and 1/3, respectively, the maximum recommended human daily inhalation dose on a mg/m² basis produced umbilical hernia. No teratogenic or embryocidal effects were detected with budesonide combined with formoterol fumarate by the inhalation route at doses approximately 1/32 and 1/16, respectively, the maximum recommended human daily inhalation dose on a mg/m2 basis.

Budesonide
Studies of pregnant women have not shown that inhaled budesonide increases the risk of abnormalities when administered during pregnancy. The results from a large population-based prospective cohort epidemiological study reviewing data from three Swedish registries covering approximately 99% of the pregnancies from 1995-1997 (ie, Swedish Medical Birth Registry; Registry of Congenital Malformations; Child Cardiology Registry) indicate no increased risk for congenital malformations from the use of inhaled budesonide during early pregnancy. Congenital malformations were studied 2014 infants born to mothers reporting the use of inhaled budesonide for asthma in early pregnancy (usually 10-12 weeks after the last menstrual period), the period when most major organ malformations occur. The rate of recorded congenital malformations was similar compared to the general population rate (3.8% vs 3.5%, respectively). In addition, after exposure to inhaled budesonide, the number of infants born with orofacial clefts was similar to the expected number in the normal population (4. bildren vs. 3.3 respectively). population (4 children vs 3.3, respectively).

These same data were utilized in a second study bringing the total to 2534 infants whose mothers were exposed to inhaled

Inese same data were utilized in a second study bringing the total to 2534 infants whose mothers were exposed to inhable budesonide. In this study, the rate of congenital malformations among infants whose mothers were exposed to inhable budesonide during early pregnancy was not different from the rate for all newborn babies during the same period (3.6%). Budesonide produced fetal loss, decreased pup weight, and skeletal abnormalities at subcutaneous doses in rabbits less than the maximum recommended human daily inhalation dose on a mcg/m² basis. In another study in rats, no teratogenic or embryocidal effects were seen at inhalation doses up to 3 times the maximum recommended human daily inhalation dose on a mcg/m² basis.

Experience with oral corticosteroids since their introduction in pharmacologic as opposed to physiologic doses suggests that rodents are more prone to teratogenic effects from corticosteroids than hun

Formoterol furmarate has been shown to be teratogenic, embryocidal, to increase pup loss at birth and during lactation, and to decrease pup weights in rats when given at oral doses 1400 times and greater the maximum recommended human daily inhalation dose on a mcg/m² basis. Umblical hernia was observed in rat fetuses at oral doses 1400 times and greater the maximum recommended human daily inhalation dose on a mcg/m² basis. Brachygnathia was observed in rat fetuses at an oral dose 7000 times the maximum recommended human daily inhalation dose on a mcg/m² basis. Pregnancy was prolonged of an oral dose 7000 times the maximum recommended human daily inhalation dose on a mcg/m² basis. In another study to rats, no teratogenic effects were seen at inhalation doses up to 500 times the maximum recommended human daily inhalation dose on a mcg/m² basis.

Subcapsular cysts on the liver were observed in rabbit fetuses at an oral dose 54,000 times the maximum recommended human daily inhalation dose on a mcg/m² basis. No teratogenic effects were observed at oral doses up to 3200 times the maximum recommended human daily inhalation dose on a mcg/m² basis.

Hypoadrenalism may occur in infants born of mothers receiving corticosteroids during pregnancy. Such infants should be

Labor and Delivery
There are no well-controlled human studies that have investigated the effects of SYMBICORT on preterm labor or labor at There are no well-controlled influence studies that never investigated in the process of the potential for beta-agonist interference with uterine contractility, use of SYMBICORT for management of asthma during labor should be restricted to those patients in whom the benefits clearly outweigh the risks.

asuma during labor should be restricted to those patients in whom the benefits clearly outweigh the risks.

Nursing Mothers

Since there are no data from controlled trials on the use of SYMBICORT by nursing mothers, a decision should be made whether to discontinue nursing or to discontinue SYMBICORT, taking into account the importance of SYMBICORT to the mother.

Budesonide, like other corticosteroids, is secreted in human milk. Data with budesonide delivered via dry powder inhaler indicates that the total daily oral dose of budesonide available in breast milk to the infant is approximately 0.3% to 1% of the dose inhaled by the mother [see **CLINICAL PHARMACOLOGY** in full Prescribing Information (12.3)]. For SYMBICORT, the dose of budesonide available to the infant in breast milk, as a percentage of the maternal dose, would be expected to

In reproductive studies in rats, formoterol was excreted in the milk. It is not known whether formoterol is excreted in human milk

Safety and effectiveness of SYMBICORT in asthma patients 12 years of age and older have been established in studies up to 12 months. In the two 12-week, double-blind, placebo-controlled US pivotal studies 25 patients 12 to 17 years of age were treated with SYMBICORT twice daily [see CLINICAL STUDIES in full Prescribing Information (14.1)]. Efficacy results in this treated with SYMBICORT twice daily [see CLINICAL STUDIES in full Prescribing Information (14.1)]. Efficacy results in this age group were similar to those observed in patients 18 years and older. There were no obvious differences in the type of frequency of adverse events reported in this age group compared with patients 18 years of age and older. The safety and effectiveness of SYMBICORT in asthma patients 6 to <12 years of age has not been established.

Overall 1447 asthma patients 6 to <12 years of age participated in placebo- and active-controlled SYMBICORT studies. Of these 1447 patients, 539 received SYMBICORT twice daily. The overall safety profile of these patients was similar to that observed in patients ≥12 years of age who also received SYMBICORT twice daily in studies of similar design.

Controlled clinical studies have shown that orally inhaled corticosteroids including budesonide, a component of SYMBICORT, may cause a reduction in growth velocity in pediatric patients. This effect has been observed in the absence of laboratory difference of HaPA-axis sunpression, suggestion that growth velocity is a patients of scriptorstory designs of the profile of the pro

evidence of HPA-axis suppression, suggesting that growth velocity is a more sensitive indicator of systemic corticosteroid exposure in pediatric patients than some commonly used tests of HPA-axis function. The long-term effect of this reduction in growth velocity associated with orally inhaled corticosteroids, including the impact on final height are unknown. The potential for "catch-up" growth following discontinuation of treatment with orally inhaled corticosteroids has not been adequately

source. In a study of asthmatic children 5-12 years of age, those treated with budesonide DPI 200 mcg twice daily (n=311) had a 1.1 centimeter reduction in growth compared with those receiving placebo (n=418) at the end of one year; the difference between these two treatment groups did not increase further over three years of additional treatment. By the end of 4 years, children treated with budesonide DPI and children treated with placebo had similar growth velocities. Conclusions drawn from

this study may be confounded by the unequal use of corticosteroids in the treatment groups and inclusion of data from patients attaining puberty during the course of the study.

The growth of pediatric patients receiving orally inhaled corticosteroids, including SYMBICORT, should be monitored. If a child or adolescent on any corticosteroid appears to have growth suppression, the possibility that he/she is particularly sensitive to this effect should be considered. The potential growth effects of prolonged treatment should be weighed against the clinical benefits obtained. To minimize the systemic effects of orally inhaled corticosteroids, including SYMBICORT, each patient should be titrated to the lowest strength that effectively controls his/her asthma [see DOSAGE AND ADMINISTRATION].

Geriatric Use
Of the total number of patients in asthma clinical studies treated with SYMBICORT twice daily, 149 were 65 years of age

Of the total number of patients in asthmac clinical studies freated with SYMBICORT twice daily, 149 were 65 years of age or older, of whom 25 were 75 years of age or older. In the COPD studies of 6 to 12 months duration, 349 patients treated with SYMBICORT 160/4.5 twice daily were 65 years old and above and of those, 73 patients were 75 years of age and older. No overall differences in safety or effectiveness were observed between these patients and younger patients, and other reported clinical experience has not identified differences in responses between the elderly and younger patients.

In responses between the elderly and younger patients.

As with other products containing beta₂-agoinsts, special caution should be observed when using SYMBICORT in geriatric patients who have concomitant cardiovascular disease that could be adversely affected by beta₂-agonists.

Based on available data for SYMBICORT or its active components, no adjustment of dosage of SYMBICORT in geriatric patients is warranted.

Hepatic Impairment

Formal pharmacokinetic studies using SYMBICORT have not been conducted in patients with hepatic impairment, However, since both budgesnide and formaterol fumarate are predominantly cleared by hepatic metabolism impairment of liver

since both budesonide and formoterol fumarate are predominantly cleared by hepatic metabolism, impairment of liver function may lead to accumulation of budesonide and formoterol fumarate in plasma. Therefore, patients with hepatic disease should be closely monitored

Renal Impairment

acokinetic studies using SYMBICORT have not been conducted in patients with renal impairment.

OVERDOSAGE

OVERDOSAGE
SYMBICORT
SYMBICORT contains both budesonide and formoterol; therefore, the risks associated with overdosage for the individual components described below apply to SYMBICORT. In pharmacokinetic studies, single doses of 960/54 mcg (12 actuations of SYMBICORT 80/4.5) and 1280/36 mcg (8 actuations of 160/4.5), were administered to patients with COPD. A total of 1920/54 mcg (12 actuations of SYMBICORT 160/4.5) was administered as a single dose to both healthy subjects and patients with asthma. In a long-term active-controlled safety study in asthma patients, SYMBICORT 160/4.5 page administered for 12 months at doses unto twice the hibester recommended daily dose. There were no clinically significant adverse reactions. to 12 months at doses up to twice the highest recommended daily dose. There were no clinically significant adverse reactions observed in any of these studies.

observed in any of these studies.

Clinical signs in dogs that received a single inhalation dose of SYMBICORT (a combination of budesonide and formoterol) in a dry powder included tremor, mucosal redness, nasal catarrh, redness of intact skin, abdominal respiration, womiting, and salivation; in the rat, the only clinical sign observed was increased respiratory rate in the first hour after dosing. No deaths occurred in rats given a combination of budesonide and formoterol at acute inhalation doses of 97 and 3 mg/kg, respectively (approximately 1200 and 1350 times the maximum recommended human daily inhalation dose on a mcg/m² basis). No deaths occurred in dogs given a combination of budesonide and formoterol at the acute inhalation doses of 732 and 22 mcg/kg, respectively (approximately 30 times the maximum recommended human daily inhalation dose of budesonide and formoterol on a mcg/m² basis).

Rudesonide

Budesonide

The potential for acute toxic effects following overdose of budesonide is low. If used at excessive doses for prolonged periods

The potential for acute toxic effects following overdose of budesonide is low. If used at excessive doses for prolonged periods, systemic corticosteroid effects such a hypercorticism may occur [see WARNINGS AMD PRECAUTIONS]. Budesonide at five times the highest recommended dose (3200 mog daily) administered to humans for 6 weeks caused a significant reduction (27%) in the plasma cortisol response to a 6-hour infusion of ACTH compared with placebo (+1%). The corresponding effect of 10 mg prednisone daily was a 35% reduction in the plasma cortisol response to ACTH.

In mice, the minimal inhalation lethal dose was 100 mg/kg (approximately 600 times the maximum recommended human daily inhalation dose on a mcg/m² basis). In rats, there were no deaths following the administration of an inhalation dose of 8 mg/kg (approximately 900 times the maximum recommended human daily inhalation dose on a mcg/m² basis) and less than 100 mg/kg in rats (approximately 1300 times the maximum recommended human daily inhalation dose on a mcg/m² basis) and less than 100 mg/kg in rats (approximately 1300 times the maximum recommended human daily inhalation dose on a mcg/m² basis) has a mcg/m² basis and less than 100 mg/kg in rats (approximately 1300 times the maximum recommended human daily inhalation dose on a mcg/m² basis) has a mcg/m² basis has a maximum recommended human daily inhalation dose on a mcg/m² basis has a mc human daily inhalation dose on a mcg/m2 basis).

Formderol
An overdose of formoterol would likely lead to an exaggeration of effects that are typical for betag-agonists: seizures, angina, hypertension, hypotension, tachycardia, atrial and ventricular tachyarrhythmias, nervousness, headache, tremor, palpitations, muscle cramps, nausea, dizziness, sleep disturbances, metabolic acidosis, hyperglycemia, hypokalemia. As with all sympathomimetic medications, cardiac arrest and even death may be associated with abuse of formoterol. No clinically significant adverse reactions were seen when formoterol was delivered to adult patients with acute bronchoconstriction at a dose of 90 mcg/day over 3 hours or to stable asthmatics 3 times a day at a total dose of 54 mcg/day for 3 days.

Teatment of formoterol overdozen consister of discontinuation of the medication together with inclinituding of appropriate.

Treatment of formoterol overdosage consists of discontinuation of the medication together with institution of appropriate symptomatic and/or supportive therapy. The judicious use of a cardioselective beta-receptor blocker may be considered. pearing in mind that such medication can produce bronchospasm. There is insufficient evidence to determine if dialysis

bearing in mind that such medication can produce bronchospasm. There is insufficient evidence to determine if dialysis is beneficial for overdosage of formoterol. Cardiac monitoring is recommended in cases of overdosage.

No deaths were seen in mice given formoterol at an inhalation dose of 276 mg/kg (more than 62,200 times the maximum recommended human daily inhalation dose on a mcg/m² basis). In rats, the minimum lethal inhalation dose was 40 mg/kg (approximately 18,000 times the maximum recommended human daily inhalation dose on a mcg/m² basis). No deaths were seen in mice that received an oral dose of 2000 mg/kg (more than 450,000 times the maximum recommended human daily inhalation dose on a mcg/m² basis). Maximum nonlethal oral doses were 252 mg/kg in young rats and 1500 mg/kg in adult rats (approximately 114,000 times and 675,000 times the maximum recommended human inhalation dose on a mcg/m² basis).

Manufactured for: AstraZeneca LP, Wilmington, DE 19850 By: AstraZeneca Dunkerque Production, Dunkerque, France Product of France

AstraZeneca -

Oophorectomy Takes Toll on **Sexual Function**

SAN DIEGO — Women who underwent bilateral oophorectomy at the time of hysterectomy reported significantly decreased levels of sexual functioning compared with women who underwent hysterectomy with ovarian conservation, results from a survey of 50 women showed.

The findings underscore the potential impact of prophylactic ovary removal on women's sexual functioning, Elizabeth Plourde, Ph.D., said during a poster session at the annual meeting of the North American Menopause Society.

"The potential for loss of ability to respond sexually is a very important consideration for women who are being advised to do prophylactic oophorectomy," said Dr. Plourde, a psychologist in Irvine, Calif. She and her associates asked 25 women who underwent hysterectomy with ovarian conservation and 25 women who underwent bilateral oophorohysterectomy to complete the Changes in Sexual Functioning Questionnaire-Female (CSFQ-F) and the Sexual Response Questionnaire-Hysterectomy (SRQ-H). The mean age of the respondents was 49 years.

Only women with functioning ovaries, based on their responses to a survey of menopause symptoms, were retained for the hysterectomy-only group, she said.

Compared with women who underwent a hysterectomy with ovarian conservation, those who underwent bilateral oophorectomy at the time of hysterectomy had significantly lower scores in total sexual functioning and in the subscale aspects of pleasure, desire/frequency and desire/interest; the number who were orgasmic was also lower among those who had bilateral oophorectomy.

Significant interactions favoring the hysterectomy with ovarian conservation group were also detected before and after surgery in total sexual functioning scores and in the subscales of pleasure, desire/frequency, desire/interest, and orgasm/completion.

Dr. Plourde acknowledged that the small sample size was a limitation of the study. She disclosed no conflicts of

-Doug Brunk

in race, body mass index, depression, comorbidity, or relationship status between groups.

The primary outcome measure was the total mean score on the FSFI, where a higher score indicates better sexual function. The mean total score in the pelvic floor disorder group was 23.2, and was not significantly lower than the mean 24.4 score in the unaffected women.

"Women with pelvic floor disorders were as sexually active as women without pelvic floor disorders when [the results were] adjusted for age," said Dr.

Omotosho, an ob.gyn. fellow at the University of New Mexico Health Sciences Center in Albu-

querque.

Dr. Omotosho said that she had no relevant disclosures

Sexual activity in the past 6 months with a male partner

was reported by 62% of the affected and 75% of the unaffected women. This difference was not statistically significant after the investigators controlled for age, Dr. Omotosho said.

The lack of a

sexual partner

was the most

commonly cited

reason for sexual

inactivity. Only

heterosexual

women were

studied because

the FSFI is not

'Women with pelvic floor disorders were as sexually active as women without pelvic floor disorders when [the results were] adjusted for age.'

validated in a lesbian.

Of the women with a pelvic floor disorder, 75% had urinary incontinence, defined as a score of 1 or greater on the Incontinence Severity Index. In addition, 53% met criteria for anal incontinence. defined as a score of 1 or greater for liquid or solid stool on the Wexner Fecal Incontinence Scale.

Also, 30% had at least stage II pelvic organ prolapse based on a Pelvic Organ Prolapse Quantification examination.

The inclusion of only women older than 40 years is a potential limitation of the study, Dr. Omotosho said.

On the other hand, the multicenter design and use of validated instru-ments were strengths.

LYRICA® (pregabalin) CAPSULES ©

BRIEF SUMMARY: For full prescribing information, see package insert.

INDICATIONS AND USAGE

LYRICA is indicated for:

• Management of fibromyalgia

DOSAGE AND ADMINISTRATION

LYRICA is given orally with or without food. When discontinuing LYRICA, taper gradually over a minimum of 1 week Fibromyalgia:

Administer in 2 divided doses per day
Begin dosing at 150 mg/day
May be increased to 300 mg/day within 1 week
Maximum dose of 450 mg/day

Dose should be adjusted for patients with reduced renal function

CONTRAINDICATIONS

is contraindicated in patients with known hypersensitivity to pregabalin or any of its other components.

WARNINGS AND PRECAUTIONS

Angioedema There have been postmarketing reports of angioedema in patients during initial and chronic treatment with LYRICA's contraindicated in patients with the components.

WARNINGS AND PRECAUTIONS

Angioedema There have been postmarketing reports of angioedema in patients during initial and chronic treatment with LYRICA Specific symptoms included swelling of the face, mouth (tongue, lips, and gums), and neck (throat and laryns). There were reports of life-threatening angioedema with respiratory compromise requiring emergency treatment. LYRICA should be discontinued immediately in patients with these symptoms. Caution should be excrised when prescribing LYRICA to patients who have had a previous episode of angioedema. In addition, patients who are taking other drugs associated with angioedema (e.g., angiotensin converting enzyme inhibitors [ACE-inhibitors]) may be at increased risk of developing angioedema. Hypersensitivity There have been postmarketing reports of hypersensitivity in patients shortly after initiation of treatment with LYRICA Adverse reactions included skin redness, blisters, hives, rash, dyspane, and wheezing. LYRICA should be discontinued immediately in patients with bees symptoms.

Withdrawal of Antiepileptic Drugs (AEDs) As with all AEDs, LYRICA should be withdrawn gradually to minimize the potential of increased seizure frequency in patients with seizure disorders. If LYRICA is discontinued this should be done gradually over a minimum of 1 week. Suicidal Behavior and Ideation Antiepileptic drugs (AEDs), including LYRICA, increase the risk of suicidal thoughts or behavior in patients taking these drugs for any indication. Patients treated with any AED for any indication should be monitored for the emergence or worsening of depression, suicidal thoughts or behavior, and/or any unusual changes in mood or behavior. Pooled analyses of 199 placebo-controlled clinical trials (mono-and adjunctive therapy) of 11 different AEDs showed that patients randomized to one of th of suicidal behavior or ideation among 27,863 AED-treated patients was 0.43%, compared to 0.24% among 16,00 placebo-treated patients, representing an increase of approximately one case of suicidal thinking or behavior for every 530 patients treated. There were four suicides in drug-treated patients in the trials and none in placebo-treated patients, but the number is too small to allow any conclusion about drug effect on suicide. The increased insk of suicidal thoughts or behavior with AEDs was observed as early as one week after starting drug treatment with AEDs and sobserved as early as one week after starting drug treatment with AEDs and pasted for the duration of treatment assessed. Because most trials included in the analysis did not extend beyond 24 weeks, the risk of suicidal thoughts or behavior beyond 24 weeks could not be assessed. The risk of suicidal thoughts or such as one of the property of the suicidal thoughts or such as one of the property of the suicidal thoughts or such as one of the property of the prop

Table 1 Risk by indication for antiepileptic drugs in the pooled analysis

Indication	Placebo Patients with Events Per 1000 Patients	Drug Patients with Events Per 1000 Patients	Relative Risk: Incidence of Events in Drug Patients/Incidence in Placebo Patients	Risk Difference: Additional Drug Patients with Events Per 1000 Patients	
Epilepsy	1.0	3.4	3.5	2.4	
Psychiatric	5.7	8.5	1.5	2.9	
Other	1.0	1.8	1.9	0.9	
Total	2.4	4.3	1.8	1.9	

(primarily blurred vision). Prospectively planned ophthalmologic testing, including visual acuity testing, formal visual field testing and dilated funduscopic examination, was performed in over 3600 patients. In these patients, visual acuity was reduced in 7% of patients treated with LYRICA, and 5% of placebo-treated patients. Visual field changes were detected in 13% of LYRICA-treated, and 12% of placebo-treated patients. Funduscopic changes were observed in 2% of LYRICA-treated and 2% of placebo-treated patients. Funduscopic changes were observed in 2% of LYRICA-treated and 2% of placebo-treated patients. Although the clinical significance of the ophthalmologic findings is unknown, patients should be informed that if changes in vision occur, they should notify their physician. If visual disturbance persists, further assessment should be considered. More frequent assessment should be considered for patients who are already routinely monitored for ocular conditions. Creatine Kinase Elevations LYRICA treatment was associated with creatine kinase elevations. Mean changes in creatine kinase from baseline to the maximum value were 60 U.f. for PIRICA-treated subjects had events reported as rhabdomyolysis in premarketing clinical trials. The relationship between these myopathy events and LYRICA is not completely understood because the cases had documented factors that may have caused or contributed to these events. Prescribers should instruct patients to promptly report unexplained muscle pain, tenderness, or weakness, particularly if these muscle symptoms are accompanied by malaise or fever. LYRICA treatment should be discontinued if myopathy is diagnosed or suspected or if markedly elevated creatine kinase levels occur. Decreased Platelet Count LYRICA treatment was associated with a decrease in platelet count LYRICA treated subject experienced a mean maximal decrease in platelet count of 20 x 10°/µL, compared to 11 x 10°/µL in placebo patients. In the overall database of controlled trials, 5% of placebo patients an

ADVERSE REACTIONS

Clinical Trials Experience Because clinical trials are conducted under widely varying conditions, adverse reaction rates observed in the clinical trials of a drug cannot be directly compared to rates in the clinical trials of another drug and may not reflect the rates observed in practice. In all controlled and uncontrolled trials across various patient populations during the premarketing development of LYRICA, more than 10,000 patients have received LYRICA. Approximately 5000 patients were treated for 6 months or more, over 3100 patients were treated for 1 year or longer, and over 1400 patients were treated for at least 2 years. Adverse Reactions Most Commonly Leading to Discontinuation in All Premarketing Controlled Clinical Studies In premarketing controlled trials of all populations combined, 14% of patients treated with LYRICA and 7% of patients treated with placebo discontinued prematurely due to adverse reactions. In the LYRICA treatment group, the adverse reactions most frequently leading to discontinuation were dizziness (4%) and somnolence (3%). In the placebo group, 1% of patients witherw due to dizziness and <1% in the placebo group were ataxia, confusion, asthenia, thinking abnormal, blurred vision, incoordination, and peripheral edema (1% each). Most Common Adverse Reactions in All Premarketing Controlled Clinical Studies in premarketing controlled trials of all patient populations combined, dizziness, somnolence, dry mouth, edema, blurred vision, weight gain, and "thinking abnormal" (primarily difficulty with concentration/attention) were more commonly reported by subjects treated with LYRICA than by subjects treated with placebo (25% and twice the rate of that seen in placebo).

in placebo.

Controlled Studies with Fibromyalgia Adverse Reactions Leading to Discontinuation In clinical trials of patients with fibromyalgia, 19% of patients treated with pregabalin (150–600 mg/day) and 10% of patients treated with placebo discontinued prematurely due to adverse reactions. In the pregabalin treatment group, the most common reasons for discontinuation due to adverse reactions were diziness (8%) and somnolence (3%). In comparison, -1% of placebo-treated patients withdrew due to dizziness and somnolence. Other reasons for discontinuation from the trials, occurring with greater frequency in the pregabalin treatment group than in the placebo treatment group, were fatigue, headache, balance disorder, and weight increased. Each of these adverse reactions led to withdrawal in any one programmately 1% of patients. Most Common Adverse Reactions Table 2 lists all adverse reactions, regardless of causality, occurring in 22% of patients with fibromyalgia in the 'all pregabalin' treatment group for which the incidence was greater than in the placebo treatment group. A majority of pregabalin-treated patients in clinical studies experienced adverse reactions with a maximum intensity of "mild" or "moderate".

Table 2 Treatment-emergent adverse reaction incidence in controlled trials in Fibromyalgia (Events in at least 2% of all LYRICA-

System Organ Class	150 mg/d [N=132]	300 mg/d [N=502]	450 mg/d [N=505]	600 mg/d [N=378]	All PGB* [N=1517]	Placebo [N=505]
- Preferred term	%	%	%	%	%	%
Ear and Labyrinth Disc	ordore					
Vertigo	7	2	2	1	2	0
Eve Disorders	4	4	4		4	U
Vision blurred	8	7	7	12	8	1
Gastrointestinal Disor		,	/	1Z	0	'
Dry mouth	uers 7	6	9	9	8	2
	4	4	7	10	7	2
Constipation						
Vomiting	2	3	3	2	3 2	2
Flatulence	1	1	2	2	2	1
Abdominal distension	2	2	2	2	2	1
General Disorders and	d Administrativ	e Site Conditions				
Fatigue	5	7	6	8	7	4
Edema peripheral	5	5	6	9	6	2
Chest pain	2	1	1	2	2	1
Feeling abnormal	ī	3	2	2	2	Ò
Edema	1	2	ī	2	2	ī
Feeling drunk	1	2	1	2	2	Ô
Infections and Infesta	tione	-		-	-	
Sinusitis	Λ	5	7	5	5	4
Investigations	7		,	J		7
Weight increased	0	10	10	14	11	2
Metabolism and Nutri	tion Discretors	10	10	14	11	2
	4	3	-	-	-	
Increased appetite	4		5	7	5	1
Fluid retention		3.	3	2	2	1
Musculoskeletal and						
Arthralgia	4	3	3	6	4	2 2
Muscle spasms	2	4	4	4	4	2
Back pain	2	3	4	3	3	3
Nervous System Disor	rders					
Dizziness	23	31	43	45	38	9
Somnolence	13	18	22	22	20	4
Headache	1	12	14	10	12	12
Disturbance in	4	4	6	6	5	1
attention			-	-	-	
Balance disorder	2	3	6	9	5	0
Memory impairment	ī	3	4	4		ñ
Coordination abnormal	2	1	2	2	3 2	1
Hypoaesthesia	2	2	3	2	2	i
		2	1	2 2	2	Ó
Lethargy	2	1	3	2	2	0
Tremor		ı	3	2	2	U
Psychiatric Disorders		_				
Euphoric mood	2	5	6	7	6	1
Confusional state	0	2	3	4	3	0
Anxiety	2	2	2 2	2	2 2	1
Disorientation	1	0	2	1	2	0
Depression	2	2	2	2	2	2
Respiratory, Thoracic	and Mediastina	al Disorders				
Pharyngolaryngeal pain	2	1	3	3	2	2

Other Adverse Reactions Observed During the Clinical Studies of LYRICA Following is a list of treatment-emergent adverse reactions reported by patients treated with LYRICA during all clinical trials. The listing does not include those events already listed in the previous tables or elsewhere in labeling, those events for which a drug cause was remote, those events already were so general as to be uninformative, and those events reported only once which did not have a substantial probability of being acutely life-threatening. Events are categorized by body system and listed in order of decreasing frequency according to the following definitions: frequent adverse reactions are those occurring on one or more occasions in least 1/100 patients; infrequent adverse reactions are those occurring in 1/100 to 1/1000 patients; rare reactions are those occurring in fewer than 1/1000 patients. Events of major clinical importance are described in the Warnings and Precautions section. Body as a Whole — Frequent: Abdominal pain, Allergic reaction, Fever; Infrequent: Abscess, Cellulitis, Chills, Malaise, Neck rigidity, Overdose, Pelvic pain, Photosensitivity reaction; Rare: Anaphylactoid reaction, Ascites, Granuloma, Hangover