Exercise Up, Diabetes Down in Vascular Disease

BY JANE LOCASTRO

eisure-time physical activity was linked to a decreased risk for type 2 diabetes in patients with vascular disease or poorly controlled risk factors, according to data from the ongoing Second Manifestations of Arterial Disease study in the Netherlands.

The benefit of physical activity was present at any level of body mass index,

reported Dr. Beate G. Brouwer of University Medical Center Utrecht and colleagues.

They studied the effect of leisure-time physical activity, as well as the combined effect of such activity and nonobesity, on the incidence of type 2 diabetes in 3,940 patients with arterial disease or a cardiovascular risk factor. Their mean age was 55 years; 68% were male, and 16% were obese, with a BMI of at least 30 kg/m².

Most patients (65%) were not physically active (0 metabolic equivalent [MET] hr/week), 25% were sufficiently active (more than 10.5 MET hr/week), and 10% were insufficiently active (0.5-10.5 MET hr/week) (Diab. Res. Clin. Pract. 2009 [doi:10.1016/j.diabres. 2009.12.001]).

A total of 194 incident cases of type 2 diabetes were reported during a mean follow-up of 4.7 years. Patients with sufficient physical activity had a lower risk of incident type 2 diabetes than those with no physical activity. Analysis of the combined effect of leisure-time physical activity and body mass index revealed that "low-risk patients who are physically active and not obese had the lowest risk for type 2 diabetes," they reported.

Dr. Brouwer and coauthors reported that they had no conflicts of interest related to the study.

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

- 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

d in patients with known hypersensitivity to pregabalin or any of its other compo

WARNINGS AND PRECAUTIONS

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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 anymx). 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 exercised 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) [AGE-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, dyspnea, and wheezing. LYRICA should be discontinued immediately in patients with these symptoms.

Withdrawal of Antiepileptic Drugs (AEDs) As with all AEDs, LYRICA should be withdrawn gradually to minimize the potential of increased sizure frequency in patients with seizure disorders. If LYRICA is discontinued this should be done 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. It LYRICA is discontinued this should be done gradually over a minimum of 1 week. Suicidal Behavior and Ideation Artiepileptic 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 (monoand adjunctive therapy) of 11 different AEDs showed that patients randomized to one of the AEDs had approximately wrice the risk (adjusted Relative Risk 1.8, 95% Cl. 1.2, 2.7) of suicidal thinking or behavior compared to patients randomized to placebo. In these trials, which had a median treatment duration of 12 weeks, the estimated incidence rate of suicidal behavior or ideation among 27,863 AED-treated patients was 0.43%, compared to 0.24% among 16,029 placebo-treated patients are suicidal solutions and the proposition and the proposition of the propos

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	43	18	19	

(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. 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. Nean changes in creatine kinase Flowations LYRICA treatment was associated with creatine kinase elevations. Mean changes in creatine kinase from baseline to the maximum value were 60 U.f. for LYRICA-treated patients and 28 U/L for the placebo patients. In all controlled trials across multiple patient populations, 1.5% of patients on LYRICA and 0.7% of placebo patients had a value of creatine kinase at least three times the upper limit of normal. Three LYRICA-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 Co

ADVERSE REACTIONS

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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 12 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 LYRICA at a 15% of patients treated with pacebo discontinuation were dizziness (4%) and somnolence (3%). In the placebo group, 1% of patients withdrew due to dizziness and <1% withdrew due to somnolence. Other adverse reactions that led to discontinuation from controlled trials more frequently in the LYRICA group compared to 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 (≥5% and twice the rate of that seen in placebo).

Controlled Studies with Fibromyalgia Adverse Reactions Leading to Discontinuation In clinical trials of patients with fibromyalgia, 19% of patients treated with prepabalin (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. In the pregabalin treatment group than for most common reasons for discontinuation due to adverse reactions were dizziness (6%) 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 approximately 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".

Class Preferred term Ear and Labyrinth Disord Vertigo Eve Disorders	[N=132] %	[N=502]				
Ear and Labyrinth Disord	%	[N=502] %	[N=505]	[N=378] %	[N=1517] %	[N=505] %
Vertigo	%		%			
Vertigo	ders					
	2	2	2	1	2	0
	_	-	-		-	-
Vision blurred	8	7	7	12	8	1
Gastrointestinal Disorde		,	,	12		'
Dry mouth	7	6	9	9	8	2
Constipation	4	4	7	10	7	2
Vomiting	2	3	3	2	3	2
Flatulence	1	1	2	2	2	1
Abdominal distension	2	2	2	2	2	1
Abdominal distension General Disorders and A				2	2	1
		e site conditions			_	
Fatigue	5	/	6	8	7	4
Edema peripheral	5	5	6	9	6	2
Chest pain	2	1	1	2	2	1
Feeling abnormal	1	3	2	2	2 2	0
Edema	1	2	1	2	2	1
Feeling drunk	1	2	1	2	2	0
nfections and Infestation	ons					
Sinusitis	4	5	7	5	5	4
nvestigations						
Weight increased	8	10	10	14	11	2
Metabolism and Nutritio	on Disorders	10	10			-
Increased appetite	4	3	5	7	5	1
Fluid retention	ż	3	3	2	2	i
Musculoskeletal and Co				-	-	
Arthralgia	4	3	3	6	4	2
Muscle spasms	2	4	4	4	4	2
Back pain	2	3	4	3	3	3
Nervous System Disorde		3	4	3	3	3
		31	40	45	00	
Dizziness	23 13		43 22	45 22	38 20	9
Somnolence	13	18				
Headache		12	14	10	12	12
Disturbance in	4	4	6	6	5	1
attention						
Balance disorder	2	3	6	9	5	0
Memory impairment	1	3	4	4	3	0
Coordination abnormal	2	1	2	2	2	1
Hypoaesthesia	2	2	3	2	2	1
Lethargy	2	2	1	2	2	0
Tremor	0	1	3	2	2	0
Psychiatric Disorders						
Euphoric mood	2	5	6	7	6	1
Confusional state	Õ	2	3	4	3	ó
Anxiety	2	2	2	2	2	ĭ
Disorientation	1	ń	2	1	2	Ó
Depression	2	2	2	2	2	2
Respiratory, Thoracic ar			4	4	4	4
Pharyngolaryngeal pain	1 u ivieulas tilla 2	ii Distriuers	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 for which a drug cause was remote, those events which 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 in 1/100 patients, rare reactions are those occurring in 1/100 to 1/1000 patients. Events of major clinical importance are described in the Warnings and Precautions section. Body as a Whole — Frequent: Abboration Jain, Allergic reaction, Fever; Infrequent: Abscses, Cellulitis, (ils, Malaise, Neck rigidity, Overdose, Pelvic pain, Photosensitivity reaction; flare: Anaphylactoid reaction, Ascites, Granuloma, Hangover