# Adverse Pregnancy Outcomes Common in RA

BY AMY ROTHMAN SCHONFELD

regnant women with rheumatoid arthritis face an increased risk of adverse obstetric outcomes, and they deserve heightened prenatal attention, according to a recent report.

Specifically, mothers with rheumatoid arthritis (RA) were 1.47 times more likely than unaffected mothers to have a low-birth-weight baby and 1.20 times

more likely to have a baby deemed small for gestational age. Women with RA also had a higher risk for developing preeclampsia (adjusted odds ratio 2.22) or having to undergo a cesarean section (adjusted OR 1.19), according to investigators (Ann. Rheum. Dis. 2010 Feb. [doi:10.1136/ard.2008.105262]).

"Our findings suggest a need for more intensive prenatal care among pregnant women with RA. In addition, early intervention should be considered to counter potential adverse obstetric outcomes for pregnant women with RA," said Herng Ching Lin, Ph.D., and associates at Taipei (Taiwan) Medical University.

Investigators used two data bases in their analysis: the Taiwan National Health Insurance Research Dataset (NHIRD). which included inpatient and ambulatory care claims for 1996-2003, and the second was the 2001-2003 National Birth

Certificate Registry (NBCR), which is maintained by the government of Taiwan. From the almost 500,000 women who had live singleton births in Taiwan between 2001 and 2003, the investigators identified 1.912 mothers with RA (International Classification of Disease, Version 9-CM, code 714.0) and compared their pregnancy outcomes with those of 9,560 controls who were matched to the cases by age, parity, and year of delivery.

# 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

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

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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 larynx). There were reports of life-threatening angioedema with respiratory compromise requiring emergy 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 (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, 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 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. Patients treated with any AED for any indication should be monitored for the emergence or worsening of depression, suicidal thoughts or behavior in patients readment with AEDs and proximately twice the risk (adjusted Relative Risk 1.8, 95% CI: 1.2, 2.7) of suicidal thinking or behavior compared to patients randomized to one of the AEDs had approximately twice the r

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. Sivual field changes were observed in 2% of JYRICA-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. Wean 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 flacetor 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 impopathy is diagnosed or suspected or if markedly elevater eractine kinase levels occur. Decreased Platelet Count LYRICA treatment was associated with a decrease in platelet count is patients. In the overall database o

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 trates in the clinical trials of another drug and may not reflect the rates observed in 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 19 are of 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 discontinuation were dizziness 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 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).

reportee by subjects treated with LYNIAA than by subjects treated with placebo (25% and whice the rate of that seen in placebo).

Controlled Studies with Fibromyalgia, 19% of patients treated with pregabalin (150–600 mg/day) and 10% 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 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 via 25% of patients with fibromyalgia in the 'all pregabalin' treatment group or 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".

erse 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	rders					
Vertigo	2	2	2	1	2	0
Eye Disorders	_	_	-		-	-
Vision blurred	8	7	7	12	8	1
Gastrointestinal Disor	ders					
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	ī
Abdominal distension	2	2	2	2	2	i
General Disorders and		n Sita Canditions		-	-	
Fatique	5	7	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	0
Edema	1	2	1	2 2	2	1
	1	2	1	2	2	0
Feeling drunk Infections and Infestat		2	1	2	2	U
	ions 4	5	7	5	5	4
Sinusitis	4	5	/	9	5	4
nvestigations		40	40	4.4	4.4	
Weight increased	8	10	10	14	11	2
Metabolism and Nutri			_			
Increased appetite	4	3	5	7	5	1
Fluid retention	. <sup>2</sup>	3.	3	2	2	1
Musculoskeletal and (		sue Disorders				
Arthralgia	4	3	3	6	4	2 2
Muscle spasms	2	4	4	4	4	2
Back pain	2	3	4	3	3	3
<b>Vervous System Disor</b>	ders					
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	1	3	4	4	3 2	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	ō	2	3	4	3	Ó
Anxiety	2	2	2	2	2	1
Disorientation	1	ñ	2	ī	2	ó
Depression	2	2	2	2	2	2
Respiratory, Thoracic		al Dicordore	4	4	4	4

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 aleast 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