Expedited Cataract Surgery Doesn't Reduce Falls

BY DENISE NAPOLI

verticed" cataract surgery occurring within 4 weeks of diagnosis did not significantly reduce falls among elderly women, according to a metaanalysis of two randomized controlled trials.

That's despite a sevenfold improvement in sight following surgery, compared with elderly cataract patients who were scheduled for surgery but were stuck on 12-month wait lists.

Nevertheless, "extensive wait times for cataract surgery are a global health care issue" and a major cause of preventable blindness, wrote the authors of the current analysis. "Focusing resources on expedited cataract surgery would reduce the extensive waiting lists, influencing the health of the elderly population" (J. Cataract Refract. Surg. 2010;36:13-9).

The authors, led by Ediriweera Desapriya, Ph.D., of the department of developmental neurosciences and child health at the University of British Columbia, Vancouver, sorted through 234 studies found in 12 databases, including Medline, that mentioned "expedited cataract surgery." Only three looked at outcome measures for both improvement of vision and reduction of injury. Just two studies, comprising 535 women

Table 2. Treatment-Emergent Adverse Reaction Incidence in Placebo-Controlled Trials in Fibromyalgia Patients (Events Occurring in at Least 2% of All Savella-Treated Patients and Occurring More Frequently in Either Savella Treatment Group Than in the Placebo Treatment

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System Organ Class- Preferred Term	Savella 100 mg/day (n = 623) %	Savella 200 mg/day (n = 934) %	All Savella (n = 1557) %	Placebo (n = 652) %
Vascular Disorders				
Hot flush	11	12	12	2
Hypertension	7	4	5	2
Flushing	2	3	3	1

Weight Changes-In placebo-controlled fibromyalgia clinical trials, patients treated with Savella for up to 3 months experienced a mean weight loss of approximately 0.8 kg in both the Savella 100 mg/day and the Savella 200 mg/day treatment groups, compared with a mean weight loss of approximately 0.2 kg in placebo-treated patients. Genitourinary Adverse Reactions in Males-In the placebo-controlled fibromyalgia studies, the following treatment-emergent adverse reactions related to the genitourinary system were observed in at least 2% of male patients treated with Savella, and occurred at a rate greater than in plecebo-treated reducting in during the unit of the site of th system were observed in at least 2% of male patients treated with Savelia, and occurred at a rate greater than in placebo-treated male patients: dysuria, ejaculation disorder, erectile dysfunction, ejaculation failure, libido decreased, prostatitis, scrotal pain, testicular pain, testicular swelling, urinary hesitation, urinary retention, urethral pain, and urine flow decreased. **Other Adverse Reactions Observed During Clinical Trials of Savella in Fibromyalgia**-Following is a list of frequent (those occurring on one or more occasions in at least 1/100 patients) treatment-emergent adverse reactions reported from 1824 fibromyalgia patients treated with Savella for periods up to 68 weeks. The listing does not include those unret advective listed in Fibr 0 these casts for which a dwn environmer emergine takes or an environment of the or the savet for the dwn environmer emergine these events where the other environmergent adverse reactions cast in the other environmergent advector environment of the other environmergent advector envinonmergent advector envinonmergent advector environmergen Informyalgia patients treated with Savella for periods up to 68 weeks. The listing does not include mose events already listed in Table 2, 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. Adverse reactions are categorized by body system and listed in order of decreasing frequency. Adverse reactions of major clinical importance are described in the *Warnings and Precautions* section. Gastrointestinal Disorders – diarrhea, dyspepsia, gastroesophageal reflux disease, flatulence, abdominal distension; General Disorders – dial near, oyspetsia, gastro-rirtability, pyrexia; Infections – urinary tract infection, cystitis; Injury, Poisoning, and Procedural Complications – contusion, fall; Investigations – weight decreased or increased; Metabolism and Nutrition Disorders – hypercholesterolemia; Nervous System Disorders – somnolence, dysgeusia; Psychiatric Disorders – depression, stress; Skin Disorders – night sweats **Postmarketing Spontaneous** Psychiatric Disorders – depression, stress; Skin Disorders – night sweats **Postmarketing Spontaneous Reports**-The following additional adverse reactions have been identified from spontaneous reports of Savella received worldwide. These adverse reactions have been chosen for inclusion because of a combination of seriousness, frequency of reporting, or potential causal connection to Savella. However, because these adverse reactions were reported voluntarily from a population of uncertain size, it is not always possible to reliably estimate their frequency or establish a causal relationship to drug exposure. These events include: Blood and Lymphatic System Disorders – leukopenia, neutropenia, thrombocy-topenia; Cardiac Disorders – supraventricular tachycardia; Eye Disorders – accommodation disorder; Endocrine Disorders – hyperprolactinemia; Hepatobiliary Disorders – hepatitis; Metabolism and Nutri-tion Disorders – anorexia, hyponatremia; Musculoskeletal and Connective Tissue Disorders – rhabdomyolysis; Nervous System Disorders – convulsions (including grand mal), loss of consciousness, Parkinsonism: Psychiatric Disorders – delirium, hallucination: Renal and Urinary Disorders – acute renal Parkinsonism: Psychiatric Disorders – delirium, hallucination: Renal and Urinary Disorders – acute renal rahilure, urinary retention; Reproductive System and Breast Disorders – galactorrhea; Skin Disorders – erythema multiforme, Stevens Johnson syndrome; Vascular Disorders – hypertensive crisis

The set of In a drug-drug interaction study, an increase in euphoria and postural hypotension was observed in patients who switched from clomipramine to Savella. *CNS-active drugs*: Given the primary CNS effects of Savella, caution should be used when it is taken in combination with other centrally acting drugs, including those with a similar mechanism of action. *Monoamine Oxidase Inhibitors (MAOIs):* [see Contraindications1.

Contraindications]. USE IN SPECIFIC POPULATIONS: Pregnancy-Pregnancy Category C. Milnacipran increased the incidence of dead fetuses in utero in rats at doses of 5 mg/kg/day (0.25 times the MRHD on a mg/m² basis). Administration of milnacipran to mice and rabbits during the period of organogenesis did not result in embryotoxicity or teratogenicity at doses up to 125 mg/kg/day in mice (3 times the maximum recom-mended human dose [MRHD] of 200 mg/day on a mg/m² basis) and up to 60 mg/kg/day in rabbits (6 times the MRHD of 200 mg/day on a mg m² basis). In rabbits, the incidence of the skeletal variation, extra single rib, was increased following administration of milnacipran at 15 mg/kg/day during the period of organogenesis. There are no adequate and well-controlled studies in pregnant women. Savella should be used during pregnancy only if the potential benefit justifies the potential risk to the fetus. <u>Nonterato-genic Effects</u>; Neonates exposed to dual reuptake inhibitors of serotonin and norepinephrine, or selective

serotonin reuptake inhibitors late in the third trimester have developed complications requiring prolonged servicini recipitate initiations and in the time time time takes have developed complications realized in the time time time time takes have developed complications can arise immediately upon delivery. Reported clinical findings have included respiratory distress, cyanosis, apnea, seizures, temperature instability, feeding difficulty, vomiting, hypoglycemia, hypotonia, hypertonia, hyperreflexia, tremor, jitteriness, irritability, and constant crying. These features are consistent with either a direct toxic of the second s tremor, jitteriness, irritability, and constant crying. These features are consistent with either a direct toxic effect of these classes of drugs or, possibly, a drug discontinuation syndrome. It should be noted that, in some cases, the clinical picture is consistent with serotonin syndrome [*see Warnings and Precautions*]. In rats, a decrease in pup body weight and viability on postpartum day 4 were observed when milnacipran, at a dose of 5 mg/kg/day (approximately 0.2 times the MRHD on a mg/m⁵ basis), was administered orally to rats during late gestation. The no-effect dose for maternal and offspring toxicity was 2.5 mg/kg/day (approximately 0.1 times the MRHD on a mg/m⁵ basis). Labor and Delivery-The effect of milnacipran on labor and delivery is unknown. The use of Savella during labor and delivery is not recommended. Nursing Mothers-There are no adequate and well-controlled studies in nursing mothers. It is not known if milnacipran is excreted in human milk. Studies in animals have shown that milnacipran or its metabolites are excreted in breast milk. Because many drugs are excreted in human milk and because of the potential for serious adverse reactions in nursing infants from milnacipran, a decision should be made whether to discontinue the drug, taking into account the importance of the drug to the mother. Because the safety of Savella in infants is not known, nursing while on Savella is not recommended. **Pediatric Use**-Safety and effectiveness of Savella in a fibromyalgia pediatric population below the age of 17 have not been established [see Box Warning and Warnings and Precautions]. The use of Savella is not recommended in pediatric patients. **Geriatric Use**-In controlled clinical studies of Savella, 402 patients were 60 years or older, and no overall differences in safety and efficacy were observed between these patients and younger patients. In view of the predominant excretion of unchanged milnacipran via kidneys and the expected decrease in renal function with age renal function should be considered prior to use of Savella in the elderly [see Dosage and Administration]. SNRIs, SSRIs, and Savella, have been associated with cases of clinically significant hyponatremia in elderly patients, who may be at greater risk table between user for the Monitor and Theoremia in elderly patients, who may be at greater risk table between user for the Monitor and Theoremia in elderly patients. for this adverse event [see Warnings and Precautions].

DRUG ABUSE AND DEPENDENCE: Controlled Substance - Milnacipran is not a controlled substance Abuse-Milnacipran did not produce behavioral signs indicative of abuse potential in animal or humar Kudies. Dependence-Milinacipran produces physical dependence, as evidenced by the emergence of withdrawal symptoms following drug discontinuation, similar to other SNRIs and SSRIs. These withdrawal symptoms can be severe. Thus, Savella should be tapered and not abruptly discontinued after extended use [see Discontinuation of Treatment with Savella].

OVERDOSAGE: There is limited clinical experience with Savella overdose in humans. In clinical trials, cases of acute ingestions up to 1000 mg, alone or in combination with other drugs, were reported with none being fatal. In postmarketing experience, fatal outcomes have been reported for acute overdoses primarily involving multiple drugs but also with Savella only. The most common signs and symptoms included increased blood pressure, cardio-respiratory arrest, changes in the level of consciousness (ranging from somnolence to coma), confusional state, dizziness, and increased hepatic enzymes. Management of Overdose-There is no specific antidote to Savella, but if serotonin syndrome ensues, specific treatment (such as with cyproheptadine and/or temperature control) may be considered. In case Specific treatment (such as winn cypronepiadine and/or temperature control) may be considered. In case of acute overdose, treatment should consist of those general measures employed in the management of overdose with any drug. An adequate airway, oxygenation, and ventilation should be assured and cardiac rhythm and vital signs should be monitored. Induction of emesis is not recommended. Gastric lavage with a large-bore orogastric tube with appropriate airway protection, if needed, may be indicated if performed soon after ingestion or in symptomatic patients. Because there is no specific antidote for Savella, symp-tomatic care and treatment with gastric lavage and activated charcoal should be considered as soon as possible for patients who experience a Savella overdose. Due to the large volume of distribution of this forma function diversion diversion being in avchange transfusion are unlikely to be beneficial. possible for patients who experience a saveral overlose. Due to the raige volume of using duration of a duresis, dialysis, hemoperfusion, and exchange transfusion are unlikely to be beneficial. In managing overdose, the possibility of multiple drug involvement should be considered. The physician should consider contacting a poison control center for additional information on the treatment of any overdose. Telephone numbers for certified poison control centers are listed in the *Physicians' Desk Reference* (PDR).

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over age 70, looked at falls specifically.

"Expedited" surgery was defined as occurring within 4 weeks of diagnosis in the two studies included in the falls analysis (Br. J. Ophthalmol. 2005;89:53-9; Age and Ageing 2006;35:66-71); the third study, which appeared only in the vision analysis, extended the definition to 6 weeks (Lancet 1998;352:925-9). "Routine" surgery in the first two trials occurred at 12 months after diagnosis and had not occurred yet at the time of analysis; in the vision-only study, it took place at 7-12 months.

Looking at all three studies, which included 372 patients in the routine surgery group and 365 expedited surgeries, "Expedited cataract surgery was associated with significantly enhanced visual acuity" at 6 months, compared with

Major Finding: Fewer falls occurred after expedited surgery (76 out of 274 patients), compared with standard surgery (87 out of 271 patients), for an OR of 0.81; the result did not reach significance (CI 0.55-1.17). Data Source: A metaanalysis of two studies with a total of 535 women who had cataract surgery.

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patients who had not yet had the procedure (odds ratio, 7.22; 95% confidence interval 3.15-16.55).

In the two studies that looked at falls, although there was a trend toward fewer falls after expedited surgery (76 out of 274 patients), compared with standard surgery (87 out of 271 patients), for an OR of 0.81, the result did not reach significance (CI 0.55-1.17). Both studies in the falls analysis were based on patient diaries.

Although a metaanalysis of only two studies may seem inadequate, the authors wrote: "When definitive and large trials have not been performed to evaluate the impact of expedited cataract surgery on the incidence of falls, a metaanalysis of all available trials could help resolve some important issues, reducing the need for large, costly new trials."

The two studies reported differences in predicted falls between men and women who have undergone cataract surgery. The age of the subjects could be a factor as the literature shows the rate of falls increases after age 70, they wrote. Also, fragile, more easily broken bones that can result from "clinical conditions that primarily affect women in their postmenopausal years, such as osteoporosis, may increase the damage caused by falls and other injuries," the authors said.

In noting the limitations of their analysis, the authors said both selected trials "had insufficient power, and the dropout rate was 7.8%. Significant cases were lost to follow-up in both trials (10.7%)." the authors said. "Future high-quality [randomized clinical trials] are recommended," they said.