16% of Health Staff Wouldn't Work in Pandemic

BY KATHRYN DEMOTT

bout one in six surveyed public health workers said they would not report to work in the event of an influenza pandemic emergency, according to an online survey of more than 1,800 public health employees in Minnesota, Ohio, and West Virginia.

Overall, 16% of the health workers said that they were unwilling to "respond to

a pandemic flu emergency regardless of its severity," according to the findings of the survey, which was conducted from November 2006 to December 2007.

Still, that represents an improvement over the 40% of public health employees who in 2005 said they would be unlikely to report to work under the same pandemic circumstances, according to the researcher team that conducted both surveys (PLoS One 2009 July 24;4:e6365).

Responses from the 1,835 public health employees in the current survey were analyzed using the extended parallel process model, which describes an individual's willingness to follow instructions in an emergency, given that person's perception of a threat and his or her belief in the ability to have a positive impact on the outcome.

Individuals who had a perception of high threat and high efficacy were near-

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 become is tuding the following testing the savel and the savel and the savel and the savel and the savel savel and the savel savel and the savel savel and the savel s The placebo-treated patients. Generationary Auderse Reactions in Wates-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 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 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 substantial for the function of the substantial for the uninformative. 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, gastro-esophageal reflux disease, flatulence, abdominal distension; General Disorders – fatigue, peripheral edema, irritability, 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 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, combination of seriousness, frequency of reporting, or potential causal connection to Savella. However 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 – nyperprolactinemia; 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 failure, urinary retention; Reproductive System and Breast Disorders – gladcorrhea; Skin Disorders – erythema multiforme, Stevens Johnson syndrome; Vascular Disorders – hypertensive crisis **DBUG INTERACTIONS**; Milnacipran undergoes minimal CYP450 related metabolism, with the majority of

DRUG INTERACTIONS: Milnacipran undergoes minimal CYP450 related metabolism, with the majority of the dose excreted unchanged in urine (55%), and has a low binding to plasma proteins (13%). In vitro and in vivo studies showed that Savella is unlikely to be involved in clinically significant pharmacokinetic drug interactions. *[See Pharmacokinetics in Special Populations]*. Clinically Important Interactions with the other participation of the second s Other Drugs-Lithium: Sectorbinis synthesis of Special Populations, Clinically Important miteractions with with other drugs that impair metabolism of serotonin [see Warnings and Precautions – Serotonin Syndrome or Neuroleptic Malignant Syndrome (NMS)-Like Reactions). Epinephrine and norepinephrine: Savella inhibits the reuptake of norepinephrine. Therefore concomitant use of Savella with epinephrine and norepinephrine may be associated with paroxysmal hypertension and possible arrhythmia [see Warnings and Precautions – Effects on Blood Pressure and Effects on Heart Rate] Serotonergic Drugs: Co-depinetenties of Savella with other inhibitore of corectories or uptake may result in breathoning and and integrations of Savella with other inhibitors of serotonin re-uptake may result in hypertension and coronary artery vasoconstriction, through additive serotonergic effects [see Warnings and Precautions]. Digoxin: Use of Savella concomitantly with digoxin may be associated with potentiation of adverse hemodynamic effects. Postural hypotension and tachycardia have been reported in combination therapy with interpreting of the second s with intravenously administered digoxin (1 mg). Co-administration of Savella and intravenous digoxin With intraversously administered orgoxin (1 mg). CC-administration of savenia and intraversous orgoxin should be avoided [see Warnings and Precautions] Clonidine: Because Savella inhibits norepinephrine reuptake, co-administration with clonidine may inhibit clonidine's anti-hypertensive effect. Clomipramine: 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 Contraindications] Contraind

Lontraindications). 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 for propagation may may an an an ender and wall-controlled studies in prognance women. Should be should 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-</u> <u>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 hospitalization, respiratory support, and tube feeding. Such 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 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/m² 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 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 in have been 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 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 human studies. **Dependence**-Milnacipran 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 cases of actue ingestions up to too mig, aone of 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, wanagement of overlose- nere is no specific randout to Savella, but in seriotomic symbolic ensues, specific treatment (such as with cyproheptadine 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, sympsoon after ingestion of 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 drug, forced diuresis, 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* (DPR) Reference (PDR)

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ly 32 times more likely to say that they would be willing to report to work during a flu pandemic, compared with individuals who reported a low threat and low efficacy perception.

These results ... reveal a unique opportunity to induce change," according to the researchers. "The first step is to better educate public heath workers as to their designed roles during this emergency scenario, and then motivate them with an understanding of why this role makes a difference."

"Employee response is a critical component of preparedness planning, yet it

Overall, 16% of the public health workers surveyed said that they were unwilling to 'respond to a pandemic flu emergency regardless of its severity.'

is often overlooked. Our study is an attempt to understand the underlying factors that determine an employee's willingness to respond in an emergency," said the study's lead investigator, Dr. Daniel Barnett, of the department of environmental health sciences at the Johns Hopkins Bloomberg School of Public Health in Baltimore.

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