Office Test for Resistant Pandemic Flu Available

BY MICHELE G. SULLIVAN

biosciences company in Canada has developed a genetic assay for in-office use to identify oseltamivir-resistant pandemic influenza

The test results, available in 2 working days, could be used to help guide patient treatment decisions, said Yvan P. Côté, Ph.D., vice president of Warnex Medical

Laboratories Inc., Montreal. Although physicians shouldn't wait on test results to initiate treatment, the short turnaround time would give quick notice on any need to switch drugs due to resistance, he said in an interview.

The test uses genetic sequencing to detect the H275Y mutation of the neuraminidase gene, which has been shown to cause resistance to oseltamivir. Dr. Cote said that Warnex could supply testing kits to physicians, who would then send the sample to the Montreal lab for processing.

The prevalence of oseltamivir-resistant mutations is unclear, Dr. Cote said. We are doing some research on that, but have no data to share. What we do believe is that there is a potential for increased resistance as [oseltamivir] is used more frequently."

Isolated incidents of resistance have

been seen in Denmark, Japan, Hong Kong, and Canada. Four cases have been detected so far in the United States, according to the Centers for Disease Control and Prevention. All tested viruses retain their sensitivity to the other neuraminidase inhibitor, zanamivir, although the pandemic H1N1 strain is universally resistant to the adamantane antiviral medications, amantadine and rimantadine.



BRIEF SUMMARY. See package insert for full Prescribing Information. For further product information and current package insert, please visit www.wyeth.com or call our medical communications department toll-free at 1-800-934-5556.

WARNING: Suicidality and Antidepressant Drugs

Wanniver, succusing an anticepressant trough Antidepressants increased the risk compared to placebo of suicidal thinking and behavio (suicidality) in children, adolescents, and young adults in short-term studies of Major Depressive Disorder (MDD) and other psychiatric disorders. Anyone considering the use of Pristiq or any other antidepressant in a child, adolescent, or young adult must balance this risk with the clinical need Short-term studies did not show an increase in the risk of suicidality with antidepressants. epressant in a child, adolescent, or young adult must balance this risk with the clinical need. Lehem studies did not show an increase in the risk of suicidality with antidepressants bared to placebo in adults beyond age 24; there was a reduction in risk with antidepressants ared to placebo in adults aged 65 and older. Depression and certain other psychiatric ders are themselves associated with increases in the risk of suicide. Patients of all ages who tarted on antidepressant therapy should be monitored appropriately and observed closely for all worsening, suicidality, or unusual changes in behavior. Families and caregivers should be sed of the need for close observation and communication with the prescriber. Pristig is not more for use in pediatric sections. Each Marinner and Perceutifiers (5.1.1 Mee in Specific oved for use in pediatric patients [see Warnings and Precautions (5.1), Use in Specific lations (8.4), and Patient Counseling Information (17.1 in the full prescribing information)].

INDICATIONS AND USAGE: Pristiq, a selective serotonin and norepinephrine reuptake inhibitor (SNRI), is indicated for the treatment of major depressive disorder (MDD).

CONTRAINDICATIONS: Hypersensitivity-Hypersensitivity to desvenlafaxine succinate, hydrochloride or to any excipients in the Pristig formulation. Monoamine Oxidase Inhibitorsbe used concomitantly in patients laking monoamine oxidase inhibitors. Pristiq must be used concomitantly in patients laking monoamine oxidase inhibitors (MAOIs) or in patients who have an MAOIs with the preceding 14 days due to the risk of serious, sometimes fatal, drug interactions with It or SSRI treatment or with other serotonergic drugs. Based on the half-life of desvenlafaxine, at least 7 s should be allowed after stopping Pristiq before starting an MAOI [see Dosage and Administration (2.5) he full prescribing information]. not be used concomitantly in patie

days should be allowed after stopping Pristiq before starting an MAOI [see Dosage and Administration (2.5) in the full prescribing information).

WARNINGS AND PRECAUTIONS: Clinical Worsening and Suicide Risk-Patients with major depressive disorder (MDD), both adult and pediatric, may experience worsening of their depression and/or the emergence of suicidal ideation and behavior (suicidality) or unusual changes in behavior, whether or not they are taking antidepressant medications, and this risk may persist until significant remission occurs. Suicide is a known risk of depression and certain other psychiatric disorders, and these disorders sthemselves are the strongest predictors of suicide. There has been a long-standing concern, however, that antidepressants may have a role in inducing worsening of depression and the emergence of suicidality antidepressants during the early phases of treatment. Pooled analyses of short-term placebo-controlled studies of antidepressant drugs (SSRIs and others) showed that these drugs increase the risk of suicidality in children, adolescents, and young adults (ages 18-24) with major depressive disorder (MDD) and other psychiatric disorders. Short-term studies did not show an increase in the risk of suicidality with antidepressants compared to placebo in adults beyond age 24; there was a reduction with antidepressants compared to placebon in adults beyond age 24; there was a reduction with antidepressants compared to placebon in adults with MDD or other psychiatric disorders included a total of 24 short-term studies of 9 antidepressant drugs in over 4,400 patients. The pooled analyses of placebo-controlled studies in adults with MDD or other psychiatric disorders included a total of 24 short-term studies (medical durated to 12 months) of 11 antidepressant drugs in over 77,000 patients. There was considerable variation in risk of suicidality among drugs, but a tendency toward an increase in the younger patients for almost all drugs studied. There were differences in absolute risk These risk differences (drug-placebo difference in the number of cases of sucidability per 1000 patients treated) are provided in Table 1 of the full prescribing information. No suicides occurred in any of the pediatric studies. There were suicides in the adult studies, but the number was not sufficient to reach any conclusion about drog effect on suicide. It is unknown whether the suicidality risk extends to longer-term use, ie, beyond several months. However, there is substantial evidence from placebo-controlled maintenance studies in adults with depression that the use of antidepressants can delay the recurrence of depression. All patients being treated with antidepressants for any indication should be monitored appropriately and observed closely for clinical worsening, suicidality, and unusual changes in behavior, especially during the initial few months of a course of drug therapy, or at times of dose changes, either increases or decreases. The following symptoms, axively, agitation, panic attacks, inspormania, and mania, have been reported in adult and pediatric patients being treated with antidepressants for major depressive disorder as well as for other indications, both psychiatric and nonspsychiatric. Although a causal link between the emergence of such symptoms and either the worsening of depression and/or the emergence of suicidal impulses has not been established, there is concern that such symptoms may represent precursors to emerging suicidality. Consideration should be invested in a such symptoms are severe, abrupt in onset, or were not part of the patient's presenting symptoms. If the decision has been made to discontinuation of a prisity, is a proper and a prope

3 consecutive on-therapy visits. In clinical studies, regarding the proportion of patients with sustained hypertension, the following rates were observed: placebo (0.5%), Prisits 30 mg (1.3%), Prisitg 100 mg (1.7%), Prisitg 20 mg (1.1%) and Prisitg 40 mg (2.3%), Analyses of patients in Prisitg controlled studies who met criteria for sustained hypertension revealed a close-dependent increase in the proportion of patients who developed sustained hypertension. Ahormal Bleeding-SNS and SNRIs can increase the risk of bleeding events. Concomitant use of aspirn, other drugs that affect platelet function, norsteroidal anti-inflammatory drugs, warfarin, and other anticoagulants can ado to this risk. Bleeding events featled to SSRIs and SNRIs have ranged from ecotymosis, hematoma, epistaxis, and peterliate to increase the risk of acute and the rest of bleeding associated with the concomitant use of Prisitg and NSAIDs, aspirin, or other drugs that affect coagulation or bleeding. Narrow-angle Glaucoma-Mydriass has been reported to in association with Prisitg, therefore, petients with ralsed intraocular pressure or hose at risk of acute narrow-angle glaucoma angle-closure glaucoma should be monitored. Acutevision of Mania/Pypomania has also been reported in a small proportion or patients with railsed intraocular pressure or hose at risk of acute narrow-angle subject of the proportion of patients with angle affective disorder wino vere treated with other marketed antidepressants. And with all antidepressants, Prisitg insurance and patients with a record history or mocratical infraction, unstable heard desease, uncontrolled hypertension, or cerebrovascular bases. Petients with these diagnoses, except for cerebrovascular disease. Petients with the desease, uncontrolled hypertension, or cerebrovascular disease. Petients with the desease, uncontrolled hypertension, or cerebrovascular disease. Petients with with prisitg proportion or patients with a record history service and patients with a record thistory of mocratical patients

di Interstitial lung disease and eosinophilic pneumonia associated with venlataxine (the parent drug of Pristig) di terapy have been rarely reported. The possibility of these adverse events should be considered in patients a should more protection and discontinuation of Pristigh should be considered in patients a should be considered more pristight of the pristight of pristight of the pristight of pristight of pristight of pristight of the pri

approximately to funds in relating subjects and subjects with min heplatic impalment to 13 and 14 hours in moderate and severe hepatic impairment, respectively. No adjustment in starting dosage is necessary for patients with hepatic impairment.

WERDOSAGE: Human Experience with Overdosage—There is limited clinical experience with desvenlafaxine succinate overdosage in humans. In premarketing clinical studies, no cases of fatal acute overdose of desvenlafaxine were reported. The adverse reactions reported within 5 days of an overdose >6000 mg that were possibly related to Pristiq included headache, vomiting, agitation, diziness, nause, constipation, diarrhea, dry mouth, paresthesia, and tachycardia. Desvenlafaxine (Pristiq) is the major active metabolite of venlafaxine. Overdose experience reported with venlafaxine (the parent drug of Pristiq) is presented below; the identical information can be found in the Overdosage section of the venlafaxine package insert. In postmarketing experience, overdose with venlafaxine (the parent drug of Pristiq) has occurred predominantly in combination with alcohol and/or other drugs. The most commonly reported events in overdosage include tachycardia, changes in level of consciousness (ranging from somnolence to coma), mydriasis, seizures, and vomiting. Electrocardiogram changes (eg. prolongation) of OT inter vol. coma), mydriasis, seizures, and vomiting. Electrocardiome, and death have been reported. Published retrospective studies report that venlafaxine overdosage may be associated with an increased risk of fatal outcomes can be attributed to the toxicity of venlafaxine in overdosage, as opposed to some characteristic(s) of venlafaxine-treated patients. The extent to which the finding of anticreased risk of fatal outcomes can be attributed to the toxicity of venlafaxine in overdosage, as opposed to some characteristic(s) of venlafaxine-treated patients. The extent to which the finding of an increased risk of fatal outcomes can be attributed to the toxicity of venlafaxine in o

This brief summary is based on Pristiq Prescribing Information W10529C004, revised February 2009