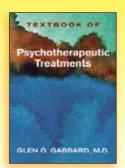
# Effective Treatments and Skill Building in Psychotherapies for the Clinician



# Textbook of Psychotherapeutic Treatments

Edited by Glen O. Gabbard, M.D.



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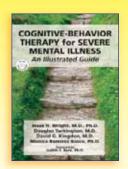
- All the major psychotherapeutic modalities are addressed, including sections on psychodynamic psychotherapy; cognitive therapy; interpersonal psychotherapy; supportive psychotherapy; family systems therapy; the different modalities of couples, group, and family therapies; dialectical behavioral therapy; and mentalization-based therapy.
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This is the only book to present a comprehensive CBT approach that can be used across the broad range of severe Axis I disorders to prevent relapse, promote treatment adherence, reduce symptoms, and maintain treatment gains. The authors, all internationally recognized experts in using CBT for severe mental illness, provide a host of functional strategies for treating patients with schizophrenia, bipolar disorder, and treatment-refractory depression. The eighteen videos show CBT in action, demonstrating such scenarios as tracing origins of paranoia and formulating an antisuicide plan. Readers seeking to learn or improve their use of CBT for severe mental illness will

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- Learn methods to help patients reduce delusional thinking, cope with hallucinations, and target hopelessness, suicidality, low energy and interest, and poor self-esteem
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#### **Important Safety Information**

- Antidepressants increased the risk of suicidal thinking and behavior (suicidality) in short-term studies in children, adolescents, and young adults with major depressive disorder (MDD) and other psychiatric disorders.
- Patients of all ages started on therapy should be monitored appropriately and observed closely for clinical worsening, suicidality, or unusual changes in behavior.
- Cymbalta is not approved for use in pediatric patients.

Cymbalta should not be used concomitantly with monoamine oxidase inhibitors (MAOIs) or in patients with uncontrolled narrow-angle glaucoma.

Clinical worsening and suicide risk: All patients being treated with an antidepressant for any indication should be monitored appropriately and observed closely for clinical worsening, suicidality, and unusual changes in behavior, especially within the first few months of treatment and when changing the dose. Consider changing the therapeutic regimen if the depression is persistently worse or there are symptoms that are severe, sudden, or were not part of the patient's presentation. If discontinuing treatment, taper the medication. Families and caregivers of patients being treated with antidepressants for any indication should be alerted about the need to monitor patients.

Hepatic failure, sometimes fatal, has been reported in patients treated with Cymbalta. Cymbalta should be discontinued in patients who develop jaundice or other evidence of clinically significant liver dysfunction and should not be resumed unless another cause can be established.

Cymbalta should ordinarily not be prescribed to patients with substantial alcohol use or evidence of chronic liver disease.

Cases of orthostatic hypotension and/or syncope as well as cases of hyponatremia have been reported.

Development of a potentially life-threatening serotonin syndrome may occur with SNRIs and SSRIs, including Cymbalta treatment, particularly with concomitant use of serotonergic drugs, including triptans. Concomitant use is not recommended.

SSRIs and SNRIs, including Cymbalta, may increase the risk of bleeding events. Patients should be cautioned about the risk of bleeding associated with concomitant use of Cymbalta and NSAIDs, aspirin, warfarin, or other drugs that affect coagulation.

On discontinuation, adverse events, some of which may be serious, have been reported with SSRIs and SNRIs. A gradual reduction in dose rather than abrupt cessation is recommended when possible.

Co-administration of Cymbalta with potent CYP1A2 inhibitors or thioridazine should be avoided.

Caution is advised in using Cymbalta in patients with conditions that may slow gastric emptying (eg, some diabetics).

Cymbalta should ordinarily not be administered to patients with any hepatic insufficiency or patients with end-stage renal disease (requiring dialysis) or severe renal impairment (CrCl <30 mL/min).

As observed in DPNP clinical trials, Cymbalta treatment worsens glycemic control in some patients with diabetes. In the extension phases up to 52 weeks, an increase in  $HbA_{1c}$  in both the Cymbalta (0.5%) and routine care groups (0.2%) was noted.

If symptoms of urinary hesitation develop during Cymbalta treatment, this effect may be drug-related. In postmarketing experience, urinary retention has been observed.

The most commonly reported adverse events (≥5% and at least twice placebo) for Cymbalta vs placebo in controlled clinical trials (N=4843 vs 3048) were: nausea, dry mouth, somnolence,\* constipation,\* decreased appetite,\* and increased sweating.

\* Events for which there was a significant dose-dependent relationship in fixed-dose studies, excluding three MDD studies which did not have a placebo lead-in period or dose titration.

## See Brief Summary of full Prescribing Information, including Boxed Warning, on following spread.

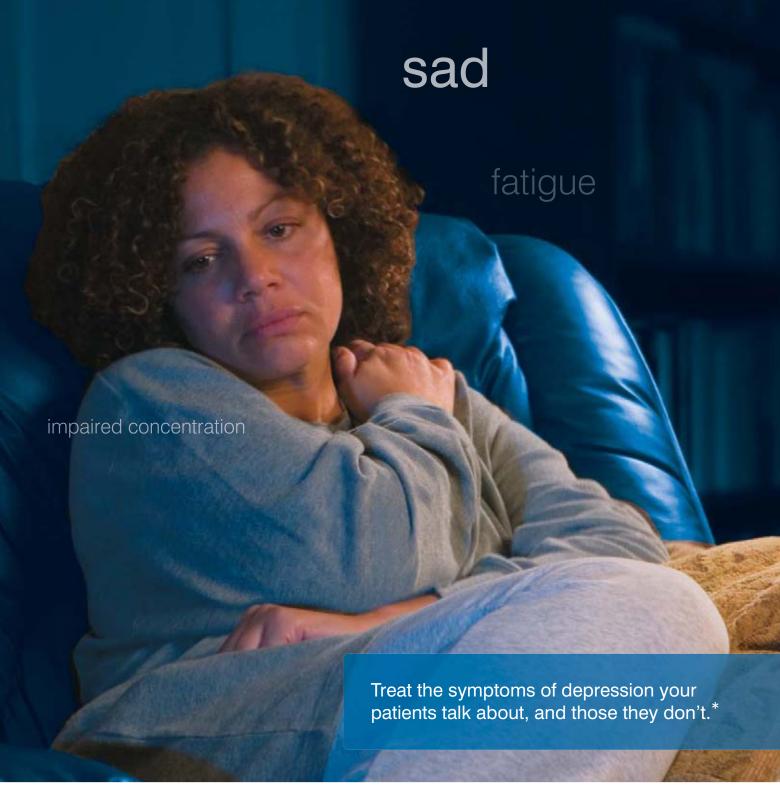
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\* Cymbalta 60 mg/day vs placebo (P≤.05) by MMRM for MDD on mean change in HAM-D<sub>17</sub> Total Score,¹ Maier Subscale,¹ Psychic Anxiety,¹ and Visual Analog Pain Scales.² Full antidepressant response may take 4-6 weeks. MMRM=Mixed-effects Models Repeated Measures analysis

References: 1. Data on file, Lilly Research Laboratories: CYM20070220C. 2. Fava M, et al. J Clin Psychiatry. 2004;65(4):521-530.

www.insidecymbalta.com







(duloxetine hydrochloride) Delayed-release Capsules

Brief Summary: Consult the package insert for complete prescribing information.

#### WARNING: SUICIDALITY AND ANTIDEPRESSANT DRUGS

Antidepressants increased the risk compared to placebo of suicidal thinking and behavior (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 Cymbalta 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 compared to placebo in adults beyond age 24; there was a reduction in risk with antidepressants compared to placebo in adults aged 65 and older. Depression and certain other psychiatric disorders are themselves associated with increases in the risk of suicide. Patients of all ages who are started on antidepressant therapy should be monitored appropriately and observed closely for clinical worsening, suicidality, or unusual changes in behavior. Families and caregivers should be advised of the need for close observation and communication with the prescriber. Cymbalta is not approved for use in pediatric patients. [See Warnings and Precautions and Use in Specific Populations.]

**INDICATIONS AND USAGE: Major Depressive Disorder**—Cymbalta is indicated for the acute and maintenance treatment of major depressive disorder (MDD).

**Generalized Anxiety Disorder**—Cymbalta is indicated for the acute treatment of generalized anxiety disorder (GAD).

Diabetic Peripheral Neuropathic Pain—Cymbalta is indicated for the management of neuropathic pain (DPNP) associated with diabetic peripheral neuropathy.

Fibromyalgia—Cymbalta is indicated for the management of fibromyalgia (FM).

CONTRAINDICATIONS: Monoamine Oxidase Inhibitors—Concomitant use in patients taking monoamine oxidase inhibitors (MAOIs) is contraindicated due to the risk of serious, sometimes fatal, drug interactions with serotonergic drugs. These interactions may include hyperthermia, rigidity, myoclonus, autonomic instability with possible rapid fluctuations of vital signs, and mental status changes that include extreme agitation progressing to delirium and coma. These reactions have also been reported in patients who have recently discontinued serotonin reuptake inhibitors and are then started on an MAOI. Some cases presented with features resembling neuroleptic malignant syndrome [see Warnings and Precautions].

Uncontrolled Narrow-Angle Glaucoma—In clinical trials, Cymbalta use was associated with an increased risk of mydriasis; therefore, its use should be avoided in patients with uncontrolled narrow-angle glaucoma [see Warnings and Precautions].

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 themselves 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 in certain patients during the early phases of treatment.

Pooled analyses of short-term placebo-controlled trials of antidepressant drugs (SSRIs and others) showed that these drugs increase the risk of suicidal thinking and behavior (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 placebo in adults aged 65 and older.

The pooled analyses of placebo-controlled trials in children and adolescents with MDD, obsessive compulsive disorder (OCD), or other psychiatric disorders included a total of 24 short-term trials of 9 antidepressant drugs in over 4400 patients. The pooled analyses of placebo-controlled trials in adults with MDD or other psychiatric disorders included a total of 295 short-term trials (median duration of 2 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 of suicidality across the different indications, with the highest incidence in MDD. The risk of differences (drug vs placebo), however, were relatively stable within age strata and across indications. These risk differences (drug-placebo difference in the number of cases of suicidality per 1000 patients treated) are provided in Table 1.

Table 1

Age Range	Drug-Placebo Difference in Number of Cases of Suicidality per 1000 Patients Treated
	Increases Compared to Placebo
<18	14 additional cases
18-24	5 additional cases
	Decreases Compared to Placebo
25-64	1 fewer case
≥65	6 fewer cases

No suicides occurred in any of the pediatric trials. There were suicides in the adult trials, but the number was not sufficient to reach any conclusion about drug effect on suicide.

It is unknown whether the suicidality risk extends to longer-term use, i.e., beyond several months. However, there is substantial evidence from placebo-controlled maintenance trials 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, anxiety, agitation, panic attacks, insomnia, irritability, hostility, aggressiveness, impulsivity, akathisia (psychomotor restlessness), hypomania, 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 nonpsychiatric. 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 given to changing the therapeutic regimen, including possibly discontinuing the medication, in patients whose depression is persistently worse, or who are experiencing emergent suicidality or symptoms that might be precursors to worsening depression or suicidality, especially if these symptoms are severe, abrupt in onset, or were not part of the patient's presenting symptoms.

If the decision has been made to discontinue treatment, medication should be tapered, as rapidly as is feasible, but with recognition that discontinuation can be associated with certain symptoms [see Warnings and Precautions, Discontinuation of Treatment with Cymbalta].

Families and caregivers of patients being treated with antidepressants for major depressive disorder or other indications, both psychiatric and nonpsychiatric, should be alerted about the need to monitor patients for the emergence of agitation, irritability, unusual changes in behavior, and the other symptoms described above, as well as the emergence of suicidality, and to report such symptoms immediately to health care providers. Such monitoring should include daily observation by families and caregivers. Prescriptions for Cymbalta should be written for the smallest quantity of capsules consistent with good patient management, in order to reduce the risk of overdose.

Screening Patients for Bipolar Disorder—A major depressive episode may be the initial presentation of bipolar disorder. It is generally believed (though not established in controlled trials) that treating such an episode with an antidepressant alone may increase the likelihood of precipitation of a mixed/manic episode in patients at risk for bipolar disorder. Whether any of the symptoms described above represent such a conversion is unknown. However, prior to initiating treatment with an antidepressant, patients with depressive symptoms should be adequately screened to determine if they are at risk for bipolar disorder; such screening should include a detailed psychiatric history, including a family history of suicide, bipolar disorder, and depression. It should be noted that Cymbalta (duloxetine) is not approved for use in treating bipolar depression.

Hepatotoxicity—There have been reports of hepatic failure, sometimes fatal, in patients treated with Cymbalta. These cases have presented as hepatitis with abdominal pain, hepatomegaly, and elevation of transaminase levels to more than twenty times the upper limit of normal with or without jaundice, reflecting a mixed or hepatocellular pattern of liver injury. Cymbalta should be discontinued in patients who develop jaundice or other evidence of clinically significant liver dysfunction and should not be resumed unless another cause can be established.

Cases of cholestatic jaundice with minimal elevation of transaminase levels have also been reported. Other postmarketing reports indicate that elevated transaminases, bilirubin, and alkaline phosphatase have occurred in patients with chronic liver disease or cirrhosis.

Cymbalta increased the risk of elevation of serum transaminase levels in development program clinical trials. Liver transaminase elevations resulted in the discontinuation of 0.3% (82/27,229) of Cymbalta-treated patients. In these patients, the median time to detection of the transaminase elevation was about two months. In placebo-controlled trials in any indication, elevation ALT >3 times the upper limit of normal occurred in 1.1% (85/7,632) of Cymbalta-treated patients compared to 0.2% (13/5,578) of placebo-treated patients. In placebo-controlled studies using a fixed dose design, there was evidence of a dose response relationship for ALT and AST elevation of >3 times the upper limit of normal and >5 times the upper limit of normal, respectively.

Because it is possible that duloxetine and alcohol may interact to cause liver injury or that duloxetine may aggravate pre-existing liver disease, Cymbalta should ordinarily not be prescribed to patients with substantial alcohol use or evidence of chronic liver disease.

Orthostatic Hypotension and Syncope—Orthostatic hypotension and syncope have been reported with therapeutic doses of duloxetine. Syncope and orthostatic hypotension tend to occur within the first week of therapy but can occur at any time during duloxetine treatment, particularly after dose increases. The risk of blood pressure decreases may be greater in patients taking concomitant medications that induce orthostatic hypotension (such as antihypertensive) or are potent CYP1A2 inhibitors [see Warnings and Precautions and Drug Interactions] and patients taking duloxetine at doses above 60 mg daily. Consideration should be given to discontinuing duloxetine in patients who experience symptomatic orthostatic hypotension and/or syncope during duloxetine therapy.

**Serotonin Syndrome**—The development of a potentially life-threatening serotonin syndrome may occur with SNRIs and SSRIs, including Cymbalta treatment, particularly with concomitant use of serotonergic drugs (including triptans) and with drugs which impair metabolism of serotonin (including MAOIs). Serotonin syndrome symptoms may include mental status changes (e.g., agitation, hallucinations, coma), autonomic instability (e.g., tachycardia, labile blood pressure, hyperthermia), neuromuscular aberrations (e.g., hyperreflexia, incoordination) and/or gastrointestinal symptoms (e.g., nausea, vomiting, diarrhea).

The concomitant use of Cymbalta with MAOIs intended to treat depression is contraindicated [see Contraindications].

If concomitant treatment of Cymbalta with a 5-hydroxytryptamine receptor agonist (triptan) is clinically warranted, careful observation of the patient is advised, particularly during treatment initiation and dose increases [see Drug Interactions].

The concomitant use of Cymbalta with serotonin precursors (such as tryptophan) is not recommended [see Drug Interactions].

Abnormal Bleeding—SSRIs and SNRIs, including duloxetine, may increase the risk of bleeding events. Concomitant use of aspirin, non-steroidal anti-inflammatory drugs, warfarin, and other anti-coagulants may add to this risk. Case reports and epidemiological studies (case-control and cohort design) have demonstrated an association between use of drugs that interfere with

serotonin reuptake and the occurrence of gastrointestinal bleeding. Bleeding events related to SSRIs and SNRIs use have ranged from ecchymoses, hematomas, epistaxis, and petechiae to life-threatening hemorrhages.

Patients should be cautioned about the risk of bleeding associated with the concomitant use of duloxetine and NSAIDs, aspirin, or other drugs that affect coagulation.

Discontinuation of Treatment with Cymbalta—Discontinuation symptoms have been systematically evaluated in patients taking duloxetine. Following abrupt or tapered discontinuation in placebo-controlled clinical trials, the following symptoms occurred at a rate greater than or equal to 1% and at a significantly higher rate in duloxetine-treated patients compared to those discontinuing from placebo: dizziness, nausea, headache, fatigue, paresthesia, vomiting, irritability, nightmares, insomnia, diarrhea, anxiety, hyperhidrosis and vertigo.

During marketing of other SSRIs and SNRIs (serotonin and norepinephrine reuptake inhibitors), there have been spontaneous reports of adverse events occurring upon discontinuation of these drugs, particularly when abrupt, including the following: dysphoric mood, irritability, agitation, dizziness, sensory disturbances (e.g., paresthesias such as electric shock sensations), anxiety, confusion, headache, lethargy, emotional lability, insomnia, hypomania, tinnitus, and seizures. Although these events are generally self-limiting, some have been reported to be severe.

Patients should be monitored for these symptoms when discontinuing treatment with Cymbalta. A gradual reduction in the dose rather than abrupt cessation is recommended whenever possible. If intolerable symptoms occur following a decrease in the dose or upon discontinuation of treatment, then resuming the previously prescribed dose may be considered. Subsequently, the physician may continue decreasing the dose but at a more gradual rate.

Activation of Mania/Hypomania—In placebo-controlled trials in patients with major depressive disorder, activation of mania or hypomania was reported in 0.1% (2/2489) of duloxetine-treated patients and 0.1% (1/1625) of placebo-treated patients. No activation of mania or hypomania was reported in DPNP, GAD, or fibromyalgia placebo-controlled trials. Activation of mania or hypomania has been reported in a small proportion of patients with mood disorders who were treated with other marketed drugs effective in the treatment of major depressive disorder. As with these other agents, Cymbalta should be used cautiously in patients with a history of mania.

**Seizures**—Duloxetine has not been systematically evaluated in patients with a seizure disorder and such patients were excluded from clinical studies. In placebo-controlled clinical trials, seizures/convulsions occurred in 0.03% (3/9445) of patients treated with duloxetine and 0.01% (1/6770) of patients treated with placebo. Cymbalta should be prescribed with care in patients with a history of a seizure disorder.

Effect on Blood Pressure—In clinical trials across indications, relative to placebo, duloxetine treatment was associated with mean increases of up to 2.1 mm Hg in systolic blood pressure and up to 2.3 mm Hg in diastolic blood pressure. There was no significant difference in the frequency of sustained (3 consecutive visits) elevated blood pressure. In a clinical pharmacology study designed to evaluate the effects of duloxetine on various parameters, including blood pressure at supratherapeutic doses with an accelerated dose titration, there was evidence of increases in supine blood pressure at doses up to 200 mg twice daily. At the highest 200 mg twice daily dose, the increase in mean pulse rate was 5.0 to 6.8 beats and increases in mean blood pressure were 4.7 to 6.8 mm Hg (systolic) and 4.5 to 7 mm Hg (diastolic) up to 12 hours after dosing.

Blood pressure should be measured prior to initiating treatment and periodically measured throughout treatment [see Adverse Reactions, Vital Sign Changes].

Clinically Important Drug Interactions—Both CYP1A2 and CYP2D6 are responsible for

Clinically Important Drug Interactions—Both CYP1A2 and CYP2D6 are responsible for duloxetine metabolism.

<u>Potential for Other Drugs to Affect Cymbalta—CYP1A2 Inhibitors—Co-administration of Cymbalta with potent CYP1A2 inhibitors should be avoided [see Drug Interactions].</u>

CYP2D6 Inhibitors—Because CYP2D6 is involved in duloxetine metabolism, concomitant use of duloxetine with potent inhibitors of CYP2D6 would be expected to, and does, result in higher concentrations (on average of 60%) of duloxetine [see Drug Interactions].

Potential for Cymbalta to Affect Other Drugs—Drugs Metabolized by CYP2D6—Co-administration of Cymbalta with drugs that are extensively metabolized by CYP2D6 and that have a narrow therapeutic index, including certain antidepressants (tricyclic antidepressants [TCAs], such as nortriptyline, amitriptyline, and imipramine), phenothiazines and Type 1C antiarrhythmics (e.g., propatenone, flecainide), should be approached with caution. Plasma TCA concentrations may need to be monitored and the dose of the TCA may need to be reduced if a TCA is co-administered with Cymbalta. Because of the risk of serious ventricular arrhythmias and sudden death potentially associated with elevated plasma levels of thioridazine, Cymbalta and thioridazine should not be co-administered Isee Drug Interactions1.

and thioridazine should not be co-administered [see Drug Interactions].

Other Clinically Important Drug Interactions—Alcohol—Use of Cymbalta concomitantly with heavy alcohol intake may be associated with severe liver injury. For this reason, Cymbalta should ordinarily not be prescribed for patients with substantial alcohol use [see Warnings and Precautions and Drug Interactions].

CNS Acting Drugs—Given the primary CNS effects of Cymbalta, it should be used with caution when it is taken in combination with or substituted for other centrally acting drugs, including those with a similar mechanism of action [see Warnings and Precautions and Drug Interactions].

Hyponatremia—Hyponatremia may occur as a result of treatment with SSRIs and SNRIs, including Cymbalta. In many cases, this hyponatremia appears to be the result of the syndrome of inappropriate antidiuretic hormone secretion (SIADH). Cases with serum sodium lower than 110 mmol/L have been reported and appeared to be reversible when Cymbalta was discontinued Elderly patients may be at greater risk of developing hyponatremia with SSRIs and SNRIs. Also, patients taking diuretics or who are otherwise volume depleted may be at greater risk [see Use in Specific Populations]. Discontinuation of Cymbalta should be considered in patients with symptomatic hyponatremia and appropriate medical intervention should be instituted.

Use in Patients with Concomitant Illness—Clinical experience with Cymbalta in patients with concomitant systemic illnesses is limited. There is no information on the effect that alterations in gastric motility may have on the stability of Cymbalta's enteric coating. In extremely acidic conditions, Cymbalta, unprotected by the enteric coating, may undergo hydrolysis to form naphthol. Caution is advised in using Cymbalta in patients with conditions that may slow gastric emptying (e.g., some diabetics).

Cymbalta has not been systematically evaluated in patients with a recent history of myocardial infarction or unstable coronary artery disease. Patients with these diagnoses were generally excluded from clinical studies during the product's premarketing testing.

<u>Hepatic Insufficiency</u>—Cymbalta should ordinarily not be used in patients with hepatic insufficiency [see Warnings and Precautions and Use in Specific Populations].

<u>Severe Renal Impairment</u>—Cymbalta should ordinarily not be used in patients with end-stage renal disease or severe renal impairment (creatinine clearance <30 mL/min). Increased plasma concentration of duloxetine, and especially of its metabolites, occur in patients with end-stage renal disease (requiring dialysis) [see Use in Specific Populations].

Controlled Narrow-Angle Glaucoma—In clinical trials, Cymbalta was associated with an increased risk of mydriasis; therefore, it should be used cautiously in patients with controlled narrow-angle glaucoma [see Contraindications].

Glycemic Control in Patients with Diabetes—As observed in DPNP trials, Cymbalta treatment worsens glycemic control in some patients with diabetes. In three clinical trials of Cymbalta for the management of neuropathic pain associated with diabetic peripheral neuropathy, the mean duration of diabetes was approximately 12 years, the mean baseline fasting blood glucose was 176 mg/dL, and the mean baseline hemoglobin A<sub>Ic</sub> (HbA<sub>Ic</sub>) was 7.8%. In the 12-week acute treatment phase of these studies, Cymbalta was associated with a small increase in mean fasting blood glucose as compared to placebo. In the extension phase of these studies, which lasted up to 52 weeks, mean fasting blood glucose increased by 12 mg/dL in the Cymbalta group and decreased by 11.5 mg/dL in the routine care group. HbA<sub>Ic</sub> increased by 0.5% in the Cymbalta and by 0.2% in the routine care groups.

**Urinary Hesitation and Retention**—Cymbalta is in a class of drugs known to affect urethral resistance. If symptoms of urinary hesitation develop during treatment with Cymbalta, consideration should be given to the possibility that they might be drug-related. In post marketing experience, cases of urinary retention have been observed. In some instances of urinary retention associated with duloxetine use, hospitalization and/or catheterization has been needed.

**Laboratory Tests**—No specific laboratory tests are recommended.

**ADVERSE REACTIONS: Clinical Trial Data Sources**—The data described below reflect exposure to duloxetine in placebo-controlled trials for MDD (N=2327), GAD (N=668), DPNP (N=568) and FM (N=876). The population studied was 17 to 89 years of age; 64.8%, 64.7%, 38.7%, and 94.6% female; and 85.5%, 84.6%, 77.6%, and 88% Caucasian for MDD, GAD, DPNP, and FM, respectively. Most patients received doses of a total of 60 to 120 mg per day.

The stated frequencies of adverse reactions represent the proportion of individuals who experienced, at least once, a treatment-emergent adverse reaction of the type listed. A reaction was considered treatment-emergent if it occurred for the first time or worsened while receiving therapy following baseline evaluation. Reactions reported during the studies were not necessarily caused by the therapy, and the frequencies do not reflect investigator impression (assessment) of causality.

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.

Adverse Reactions Reported as Reasons for Discontinuation of Treatment in Placebo-Controlled Trials—Major Depressive Disorder—Approximately 9% (209/2327) of the patients who received duloxetine in placebo-controlled trials for MDD discontinued treatment due to an adverse reaction, compared with 4.7% (68/1460) of the patients receiving placebo. Nausea (duloxetine 1.3%, placebo 0.5%) was the only common adverse reaction reported as a reason for discontinuation and considered to be drug-related (i.e., discontinuation occurring in at least 1% of the duloxetine-treated patients and at a rate of at least twice that of placebo).

Generalized Anxiety Disorder—Approximately 15.3% (102/668) of the patients who received duloxetine in placebo-controlled trials for GAD discontinued treatment due to an adverse reaction, compared with 4.0% (20/495) for placebo. Common adverse reactions reported as a reason for discontinuation and considered to be drug-related (as defined above) included nausea (duloxetine 3.7%, placebo 0.2%), vomiting (duloxetine 1.3%, placebo 0.0%), and dizziness (duloxetine 1.0%, placebo 0.2%).

<u>Diabetic Peripheral Neuropathic Pain</u>—Approximately 14.3% (81/568) of the patients who received duloxetine in placebo-controlled trials for DPNP discontinued treatment due to an adverse reaction, compared with 7.2% (16/223) for placebo. Common adverse reactions reported as a reason for discontinuation and considered to be drug-related (as defined above) were nausea (duloxetine 3.5%, placebo 0.4%), dizziness (duloxetine 1.6%, placebo 0.4%), somnolence (duloxetine 1.6%, placebo 0.0%).

<u>Fibromyalgia</u>—Approximately 19.5% (171/876) of the patients who received duloxetine in 3 to 6 month placebo-controlled trials for FM discontinued treatment due to an adverse reaction, compared with 11.8% (63/635) for placebo. Common adverse reactions reported as a reason for discontinuation and considered to be drug-related (as defined above) included nausea (duloxetine 1.9%, placebo 0.7%), somnolence (duloxetine 1.5%, placebo 0.0%), and fatigue (duloxetine 1.3%, placebo 0.2%).

Adverse Reactions Occurring at an Incidence of 5% or More and at least Twice Placebo Among Duloxetine-Treated Patients in Placebo-Controlled Trials—Pooled Trials for all Approved Indications—The most commonly observed adverse reactions in Cymbalta-treated patients (incidence of at least 5% and at least twice the incidence in placebo patients) were nausea, dry mouth, constipation, somnolence, hyperhidrosis, and decreased appetite.

In addition to the adverse reactions listed above, DPNP trials also included dizziness and asthenia

Adverse Reactions Occurring at an Incidence of 5% or More Among Duloxetine-Treated Patients in Placebo-Controlled Trials—The incidence of treatment-emergent adverse reactions in placebo-controlled trials (N=4843 Cymbalta; N=3048 placebo) for approved indications that occurred in 5% or more of patients treated with duloxetine and with an incidence greater than placebo were: nausea, headache, dry mouth, fatigue (includes asthenia), insomnia\* (includes middle insomnia, early morning awakening, and initial insomnia), dizziness, somnolence\* (includes hypersomnia and sedation), constipation\*, diarrhea, decreased appetite\* (includes anorexia), and hyperhidrosis. \*Events for which there was a significant dose-dependent relationship in fixed-dose studies, excluding three MDD studies which did not have a placebo lead-in period or dose titration.

Adverse Reactions Occurring at an Incidence of 2% or More Among Duloxetine-Treated Patients in Placebo-Controlled Trials—Pooled MDD and GAD Trials—Table 3 in full PI gives the incidence of treatment-emergent adverse reactions in MDD and GAD placebo-controlled trials (N=2995 Cymbalta; N=1955 placebo) for approved indications that occurred in 2% or more of

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patients treated with duloxetine and with an incidence greater than placebo were: <a href="Cardiac Disorders">Cardiac Disorders</a>—palpitations; <a href="Eye Disorders">Eye Disorders</a>—vision blurred; <a href="Gastrointestinal Disorders">Gastrointestinal Disorders</a>—nausea, dry mouth, diarrhea, constipation\*, abdominal pain (includes abdominal pain upper, abdominal pain lower, abdominal tenderness, abdominal discomfort, and gastrointestinal pain), vomiting; <a href="General Disorders">General Disorders</a> and Administration Site Conditions—fatigue (includes asthenia); <a href="Investigations">Investigations</a>—weight decreased\*; Metabolism and Nutrition Disorders—decreased appetite (includes anorexia); <a href="Nervous System Disorders">Nervous System Disorders</a>—dizziness, somnolence (includes hypersomnia and sedation), tremor; <a href="Psychiatric Disorders">Psychiatric Disorders</a>—insomnia (includes middle insomnia, early morning awakening, and initial insomnia), agitation (includes feeling jittery, nervousness, restlessness, tension, and psychomotor agitation), anxiety, decreased libido (includes loss of libido), orgasm abnormal (includes anorgasmia), abnormal dreams (includes nightmare); <a href="Reproductive System and Breast Disorders">Reproductive System and Breast Disorders</a>—erectile dysfunction, ejaculation delayed, ejaculation disorder (includes ejaculation failure and ejaculation dysfunction); <a href="Respiratory">Respiratory</a>. Thoracic, and Mediastinal Disorders—wawning; Skin and Subcutaneous Tissue Disorders—hyperhidrosis; <a href="Vascular Disorders">Vascular Disorders</a>—hyperhidrosis; <a href="Vascular Disorders">Vascular Disorders</a>—hyperhidros

Diabetic Peripheral Neuropathic Pain—Treatment-emergent adverse events that occurred in 2% or more of patients treated with Cymbalta in the premarketing acute phase of DPNP placebo-controlled trials (N=115 Cymbalta 20 mg once daily; N=228 Cymbalta 60 mg once daily; N=225 Cymbalta 60 mg twice daily; N=223 placebo) with an incidence greater than placebo were: Gastrointestinal Disorders—nausea, constipation, diarrhea, dry mouth, vomiting, dyspepsia, loose stools; General Disorders and Administration Site Conditions—fatigue, asthenia, pyrexia; Infections and Infestations—nasopharyngitis; Metabolism and Nutrition Disorders—decreased appetite, anorexia; Musculoskeletal and Connective Tissue Disorders—muscle cramp, myalgia; Nervous System Disorders—somnolence, headache, dizziness, tremor; Psychiatric Disorders—insomnia; Renal and Urinary Disorders—pollakiuria; Reproductive System and Breast Disorders—erectile dysfunction; Respiratory, Thoracic and Mediastinal Disorders—cough, pharyngolaryngeal pain; Skin and Subcutaneous Tissue Disorders—hyperhidrosis.

Fibromyalgia—Treatment-emergent adverse events that occurred in 2% or more of patients treated with Cymbalta in the premarketing acute phase of FM placebo-controlled trials (N=876 Cymbalta; N=535 placebo) and with an incidence greater than placebo were: Cardiac Disorderspalpitations; Eye Disorders—vision blurred; Gastrointestinal Disorders—nausea, dry mouth, constipation, diarrhea, dyspepsia; General Disorders and Administration Site Conditionsfatigue (includes asthenia); <u>immune System Disorders</u>—seasonal allergy; <u>Infections and</u> Infestations—upper respiratory tract infection, urinary tract infection, influenza, gastroenteritis viral; Investigations—weight increased; Metabolism and Nutrition Disorders—decreased appetite (includes anorexia); Musculoskeletal and Connective Tissue Disorders—musculoskeletal pain, muscle spasm; <u>Nervous System Disorders</u>—headache, dizziness, somnolence (includes hypersomnia and sedation), tremor, paraesthesia, migraine, dysgeusia; Psychiatric Disorders insomnia (includes middle insomnia, early morning awakening, and initial insomnia), agitation (includes feeling jittery, nervousness, restlessness, tension, and psychomotor agitation), sleep disorder, abnormal dreams (includes nightmare), orgasm abnormal (includes anorgasmia), libido decreased (includes loss of libido); Reproductive System and Breast Disorders—ejaculation disorder (includes ejaculation failure and ejaculation dysfunction), penis disorder; Respiratory. Thoracic, and Mediastinal Disorders—cough, pharyngolaryngeal pain; Skin and Subcutaneous <u>Tissue Disorders</u>—hyperhidrosis, rash, pruritus; <u>Vascular Disorders</u>—hot flush

Effects on Male and Female Sexual Function—Changes in sexual desire, sexual performance and sexual satisfaction often occur as manifestations of psychiatric disorders or diabetes, but they may also be a consequence of pharmacologic treatment. Because adverse sexual reactions are presumed to be voluntarily underreported, the Arizona Sexual Experience Scale (ASEX), a validated measure designed to identify sexual side effects, was used prospectively in 4 MDD placebo-controlled trials. In these trials, patients treated with Cymbalta experienced significantly more sexual dysfunction, as measured by the total score on the ASEX, than did patients treated with placebo. Gender analysis showed that this difference occurred only in males. Males treated with Cymbalta experienced more difficulty with ability to reach orgasm (ASEX Item 4) than males treated with placebo. Females did not experience more sexual dysfunction on Cymbalta than on placebo as measured by ASEX total score. Physicians should routinely inquire about possible sexual side effects. See Table 6 in full PI for specific ASEX results.

Vital Sign Changes—In clinical trials across indications, relative to placebo, duloxetine treatment was associated with mean increases of up to 2.1 mm Hg in systolic blood pressure and up to 2.3 mm Hg in diastolic blood pressure. There was no significant difference in the frequency of sustained (3 consecutive visits) elevated blood pressure [see Warnings and Precautions]. Duloxetine treatment, for up to 26-weeks in placebo-controlled trials typically caused a small increase in heart rate compared to placebo of up to 3-4 beats per minute.

Weight Changes—In placebo-controlled clinical trials, MDD and GAD patients treated with Cymbalta for up to 10 weeks experienced a mean weight loss of approximately 0.5 kg, compared with a mean weight gain of approximately 0.2 kg in placebo-treated patients. In DPN placebo-controlled clinical trials, patients treated with Cymbalta for up to 13-weeks experienced a mean weight loss of approximately 1.1 kg, compared with a mean weight gain of approximately 0.2 kg in placebo-treated patients. In fibromyalgia studies, patients treated with Cymbalta or up to 26 weeks experienced a mean weight loss of approximately 0.4 kg compared with a mean weight gain of approximately 0.3 kg in placebo-treated patients. In one long-term fibromyalgia 60-week uncontrolled study, duloxetine patients had a mean weight increase of 0.7 kg.

Laboratory Changes—Cymbalta treatment in placebo-controlled clinical trials, was associated with small mean increases from baseline to endpoint in ALT, AST, CPK, and alkaline phosphatase; infrequent, modest, transient, abnormal values were observed for these analytes in Cymbalta-treated patients when compared with placebo-treated patients [see Warnings and Precautions].

Electrocardiogram Changes—Electrocardiograms were obtained from duloxetine-treated patients and placebo-treated patients in clinical trials lasting up to 13-weeks. No clinically significant differences were observed for QTc, QT, PR, and QRS intervals between duloxetine-treated and placebo-treated patients. There were no differences in clinically meaningful QTcF elevations between duloxetine and placebo. In a positive-controlled study in healthy volunteers using duloxetine up to 200 mg twice daily, no prolongation of the corrected QT interval was observed.

Other Adverse Reactions Observed During the Premarketing and Postmarketing Clinical Trial Evaluation of Duloxetine—Following is a list of treatment-emergent adverse reactions reported by patients treated with duloxetine in clinical trials. In clinical trials of all indications, 27,229 patients were treated with duloxetine. Of these, 29% (7,886) took duloxetine for at least 6 months, and 13.3% (3,614) for at least one year. The following listing is not intended to include reactions (1) already listed in previous tables or elsewhere in labeling, (2) for which a drug cause was remote, (3) which were so general as to be uninformative, (4) which were not considered to have significant clinical implications, or (5) which occurred at a rate equal to or less than placebo.

Reactions are categorized by body system according to the following definitions: frequent adverse reactions are those occurring in at least 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. <u>Cardiac Disorders</u>—<u>Frequent:</u> palpitations; <u>Infrequent:</u> myocardial infarction and tachycardia; <u>Ear and Labyrinth Disorders</u>—<u>Frequent:</u> vertigo; <u>Infrequent:</u> ear pain and tinnitus; Endocrine Disorders—Infrequent: hypothyroidism; Eye Disorders—Frequent: vision blurred; Infrequent: diplopia and visual disturbance; Gastrointestinal Disorders—Frequent: flatulence; Infrequent: eructation, gastritis, halitosis, and stomatitis; Rare: gastric ulcer, hematochezia, and melena; General Disorders and Administration Site Conditions—Frequent: chills/rigors; Infrequent: feeling abnormal, feeling hot and/or cold, malaise, and thirst; Rare: gait disturbance; Infections and Infestations—Infrequent: gastroenteritis and laryngitis; Investigations—Frequent: weight increased; Infrequent: blood cholesterol increased; Metabolism and Nutrition Disorders—Infrequent: dehydration and hyperlipidemia; Rare: dyslipidemia; Musculoskeletal and Connective Tissue Disorders—Frequent: musculoskeletal pain; Infrequent: muscle tightness and muscle twitching; Nervous System Disorders-Frequent: dysgeusia, lethargy, and parasthesia/hypoesthesia; Infrequent: disturbance in attention, dyskinesia, myoclonus, and poor quality sleep; Rare: dysarthria; Psychiatric Disorders-Frequent: abnormal dreams and sleep disorder; Infrequent: apathy, bruxism, disorientation/ confusional state, irritability, mood swings, and suicide attempt; Rare: completed suicide; Renal and Urinary Disorders—Infrequent: dysuria, micturition urgency, nocturia, polyuria, and urine odor abnormal.; Reproductive System and Breast Disorders—Frequent: anorgasmia/orgasm abnormal; Infrequent: menopausal symptoms, and sexual dysfunction; Respiratory, Thoracic and Mediastinal Disorders—Frequent: yawning; Infrequent: throat tightness; Skin and <u>Subcutaneous Tissue Disorders</u>—*Infrequent:* cold sweat, dermatitis contact, erythema, increased tendency to bruise, night sweats, and photosensitivity reaction; *Rare:* ecchymosis; Vascular Disorders—Frequent: hot flush; Infrequent: flushing, orthostatic hypotension, and peripheral coldness

**Postmarketing Spontaneous Reports**—The following adverse reactions have been identified during postapproval use of Cymbalta. Because these reactions are 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.

Adverse reactions reported since market introduction that were temporally related to duloxetine therapy and not mentioned elsewhere in labeling include: anaphylactic reaction, aggression and anger (particularly early in treatment or after treatment discontinuation), angioneurotic edema, erythema multiforme, extrapyramidal disorder, glaucoma, gynecological bleeding, hallucinations, hyperglycemia, hypersensitivity, hypertensive crisis, muscle spasm, rash, supraventricular arrhythmia, tinnitus (upon treatment discontinuation), trismus, and urticaria.

Serious skin reactions including Stevens-Johnson Syndrome that have required drug discontinuation and/or hospitalization have been reported with duloxetine.

**DRUG INTERACTIONS:** Both CYP1A2 and CYP2D6 are responsible for duloxetine metabolism. **Inhibitors of CYP1A2**—When duloxetine 60 mg was co-administered with fluvoxamine 100 mg, a potent CYP1A2 inhibitor, to male subjects (n=14) duloxetine AUC was increased approximately 6-fold, the C<sub>max</sub> was increased about 2.5-fold, and duloxetine 11/2 was increased approximately 3-fold. Other drugs that inhibit CYP1A2 metabolism include cimetidine and quinolone antimicrobials such as ciprofloxacin and enoxacin *[see Warnings and Precautions]*.

Inhibitors of CYP2D6—Concomitant use of duloxetine (40 mg once daily) with paroxetine (20 mg once daily) increased the concentration of duloxetine AUC by about 60%, and greater degrees of inhibition are expected with higher doses of paroxetine. Similar effects would be expected with other potent CYP2D6 inhibitors (e.g., fluoxetine, quinidine) [see Warnings and Precautions].

**Dual Inhibition of CYP1A2 and CYP2D6**—Concomitant administration of duloxetine 40 mg twice daily with fluvoxamine 100 mg, a potent CYP1A2 inhibitor, to CYP2D6 poor metabolizer subjects (n=14) resulted in a 6-fold increase in duloxetine AUC and  $C_{max}$ .

Drugs that Interfere with Hemostasis (e.g., NSAIDs, Aspirin, and Warfarin)—Serotonin release by platelets plays an important role in hemostasis. Epidemiological studies of the case-control and cohort design that have demonstrated an association between use of psychotropic drugs that interfere with serotonin reuptake and the occurrence of upper gastrointestinal bleeding have also shown that concurrent use of an NSAID or aspirin may potentiate this risk of bleeding. Altered anticoagulant effects, including increased bleeding, have been reported when SSRIs or SNRIs are coadministered with warfarin. Patients receiving warfarin therapy should be carefully monitored when duloxetine is initiated or discontinued [see Warnings and Precautions].

**Lorazepam**—Under steady-state conditions for duloxetine (60 mg Q 12 hours) and lorazepam (2 mg Q 12 hours), the pharmacokinetics of duloxetine were not affected by co-administration.

**Temazepam**—Under steady-state conditions for duloxetine (20 mg qhs) and temazepam (30 mg qhs), the pharmacokinetics of duloxetine were not affected by co-administration.

Drugs that Affect Gastric Acidity—Cymbalta has an enteric coating that resists dissolution until reaching a segment of the gastrointestinal tract where the pH exceeds 5.5. In extremely acidic conditions, Cymbalta, unprotected by the enteric coating, may undergo hydrolysis to form naphthol. Caution is advised in using Cymbalta in patients with conditions that may slow gastric emptying (e.g., some diabetics). Drugs that raise the gastrointestinal pH may lead to an earlier release of duloxetine. However, co-administration of Cymbalta with aluminum- and magnesium-containing antacids (51 mEq) or Cymbalta with famotidine, had no significant effect on the rate or extent of duloxetine absorption after administration of a 40 mg oral dose. It is unknown whether the concomitant administration of proton pump inhibitors affects duloxetine absorption [see Warnings and Precautions].

**Drugs Metabolized by CYP1A2**—In vitro drug interaction studies demonstrate that duloxetine does not induce CYP1A2 activity. Therefore, an increase in the metabolism of CYP1A2 substrates (e.g., theophylline, caffeine) resulting from induction is not anticipated, although clinical studies of induction have not been performed. Duloxetine is an inhibitor of the CYP1A2 isoform in *in vitro* studies, and in two clinical studies the average (90% confidence interval) increase in theophylline AUC was 7% (1%-15%) and 20% (13%-27%) when co-administered with duloxetine (60 mg twice daily).

Drugs Metabolized by CYP2D6—Duloxetine is a moderate inhibitor of CYP2D6. When duloxetine was administered (at a dose of 60 mg twice daily) in conjunction with a single 50-mg dose of desipramine, a CYP2D6 substrate, the AUC of desipramine increased 3-fold [see Warnings and Precautions].

**Drugs Metabolized by CYP2C9**—Duloxetine does not inhibit the *in vitro* enzyme activity of CYP2C9. Inhibition of the metabolism of CYP2C9 substrates is therefore not anticipated, although clinical studies have not been performed.

Drugs Metabolized by CYP3A—Results of *in vitro* studies demonstrate that duloxetine does not inhibit or induce CYP3A activity. Therefore, an increase or decrease in the metabolism of CYP3A substrates (e.g., oral contraceptives and other steroidal agents) resulting from induction or inhibition is not anticipated, although clinical studies have not been performed.

Drugs Metabolized by CYP2C19—Results of *in vitro* studies demonstrate that duloxetine

**Drugs Metabolized by CYP2C19**—Results of *in vitro* studies demonstrate that duloxetine does not inhibit CYP2C19 activity at therapeutic concentrations. Inhibition of the metabolism of CYP2C19 substrates is therefore not anticipated, although clinical studies have not been performed.

Monoamine Oxidase Inhibitors—Switching Patients to or from a Monoamine Oxidase Inhibitor—At least 14 days should elapse between discontinuation of an MAOI and initiation of therapy with Cymbalta. In addition, at least 5 days should be allowed after stopping Cymbalta before starting an MAOI [see Contraindications and Warnings and Precautions].

Serotonergic Drugs—Based on the mechanism of action of SNRIs and SSRIs, including Cymbalta, and the potential for serotonin syndrome, caution is advised when Cymbalta is co-administered with other drugs that may affect the serotonergic neurotransmitter systems, such as triptans, linezolid (an antibiotic which is a reversible non-selective MAOI), lithium, tramadol, or St. John's Wort. The concomitant use of Cymbalta with other SSRIs, SNRIs or tryptophan is not recommended [see Warnings and Precautions].

**Triptans**—There have been rare postmarketing reports of serotonin syndrome with use of an SSRI and a triptan. If concomitant treatment of Cymbalta with a triptan is clinically warranted, careful observation of the patient is advised, particularly during treatment initiation and dose increases [see Warnings and Precautions].

Alcohol—When Cymbalta and ethanol were administered several hours apart so that peak concentrations of each would coincide, Cymbalta did not increase the impairment of mental and motor skills caused by alcohol.

In the Cymbalta clinical trials database, three Cymbalta-treated patients had liver injury as manifested by ALT and total bilirubin elevations, with evidence of obstruction. Substantial intercurrent ethanol use was present in each of these cases, and this may have contributed to the abnormalities seen [see Warnings and Precautions].

CNS Drugs—[see Warnings and Precautions].

**Drugs Highly Bound to Plasma Protein**—Because duloxetine is highly bound to plasma protein, administration of Cymbalta to a patient taking another drug that is highly protein bound may cause increased free concentrations of the other drug, potentially resulting in adverse reactions.

**USE IN SPECIFIC POPULATIONS: Pregnancy**—<u>Teratogenic Effects, Pregnancy Category C</u>—In animal reproduction studies, duloxetine has been shown to have adverse effects on embryo/fetal and postnatal development.

When duloxetine was administered orally to pregnant rats and rabbits during the period of organogenesis, there was no evidence of teratogenicity at doses up to 45 mg/kg/day (7 times the maximum recommended human dose [MRHD, 60 mg/day] and 4 times the human dose of 120 mg/day on a mg/m² basis, in rat; 15 times the MRHD and 7 times the human dose of 120 mg/day on a mg/m² basis in rabbit). However, fetal weights were decreased at this dose, with a no-effect dose of 10 mg/kg/day (2 times the MRHD and  $\approx$ 1 times the human dose of 120 mg/day on a mg/m² basis in rat; 3 times the MRHD and 2 times the human dose of 120 mg/day on a mg/m² basis in rabbits).

When duloxetine was administered orally to pregnant rats throughout gestation and lactation, the survival of pups to 1 day postpartum and pup body weights at birth and during the lactation period were decreased at a dose of 30 mg/kg/day (5 times the MRHD and 2 times the human dose of 120 mg/day on a mg/m² basis); the no-effect dose was 10 mg/kg/day. Furthermore, behaviors consistent with increased reactivity, such as increased startle response to noise and decreased habituation of locomotor activity, were observed in pups following maternal exposure to 30 mg/kg/day. Post-weaning growth and reproductive performance of the progeny were not affected adversely by maternal duloxetine treatment.

There are no adequate and well-controlled studies in pregnant women; therefore, duloxetine should be used during pregnancy only if the potential benefit justifies the potential risk to the fetus

Nonteratogenic Effects—Neonates exposed to SSRIs or serotonin and norepinephrine reuptake inhibitors (SNRIs), 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, hypotronia, hypertonia, hyperreflexia, tremor, jitteriness, irritability, and constant crying. These features are consistent with either a direct toxic effect of SSRIs and SNRIs 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].

When treating pregnant women with Cymbalta during the third trimester, the physician should carefully consider the potential risks and benefits of treatment. The physician may consider tapering Cymbalta in the third trimester.

Labor and Delivery—The effect of duloxetine on labor and delivery in humans is unknown. Duloxetine should be used during labor and delivery only if the potential benefit justifies the potential risk to the fetus.

**Nursing Mothers**—Duloxetine is excreted into the milk of lactating women. The estimated daily infant dose on a mg/kg basis is approximately 0.14% of the maternal dose. Because the safety of duloxetine in infants is not known, nursing while on Cymbalta is not recommended. However, if the physician determines that the benefit of duloxetine therapy for the mother outweighs any potential risk to the infant, no dosage adjustment is required as lactation did not influence duloxetine pharmacokinetics.

**Pediatric Use**—Safety and effectiveness in the pediatric population have not been established [see Boxed Warning and Warnings and Precautions]. Anyone considering the use of Cymbalta in a child or adolescent must balance the potential risks with the clinical need.

Geriatric Use—Of the 2,418 patients in premarketing clinical studies of Cymbalta for MDD, 5.9% (143) were 65 years of age or over. Of the 1,074 patients in the DPNP premarketing studies, 33% (357) were 65 years of age or over. Of the 1,761 patients in FM premarketing studies, 7.9% (140) were 65 years of age or over. Premarketing clinical studies of GAD did not include sufficient numbers of subjects age 65 or over to determine whether they respond differently from younger subjects. In the MDD and DPNP studies, no overall differences in safety or effectiveness were observed between these subjects and younger subjects, and other reported clinical experience has not identified differences in responses between the elderly and younger patients, but greater sensitivity of some older individuals cannot be ruled out. SSRIs and SNRIs, including Cymbalta 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].

**Gender**—The half-life of duloxetine is similar in men and women. Dosage adjustment based on gender is not necessary.

**Smoking Status**—Duloxetine bioavailability (AUC) appears to be reduced by about one-third in smokers. Dosage modifications are not recommended for smokers.

**Race**—No specific pharmacokinetic study was conducted to investigate the effects of race. **Hepatic Insufficiency**—[see Warnings and Precautions].

Severe Renal Impairment—[see Warnings and Precautions].

DRUG ABUSE AND DEPENDENCE: Abuse—In animal studies, duloxetine did not demonstrate barbiturate-like (depressant) abuse potential. While Cymbalta has not been systematically studied in humans for its potential for abuse, there was no indication of drug-seeking behavior in the clinical trials. However, it is not possible to predict on the basis of premarketing experience the extent to which a CNS active drug will be misused, diverted, and/or abused once marketing consequently, physicians should carefully evaluate patients for a history of drug abuse and follow such patients closely, observing them for signs of misuse or abuse of Cymbalta (e.g., development of tolerance, incrementation of dose, drug-seeking behavior).

**Dependence**—In drug dependence studies, duloxetine did not demonstrate dependence producing potential in rats.

**OVERDOSAGE: Signs and Symptoms**—In postmarketing experience, fatal outcomes have been reported for acute overdoses, primarily with mixed overdoses, but also with duloxetine only, at doses as low as 1000 mg. Signs and symptoms of overdose (duloxetine alone or with mixed drugs) included somnolence, coma, serotonin syndrome, seizures, syncope, tachycardia, hypotension, hypertension, and vomiting.

Management of Overdose—There is no specific antidote to Cymbalta, but if serotonin syndrome 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.

NONCLINICAL TOXICOLOGY: Carcinogenesis, Mutagenesis, and Impairment of Fertility— Carcinogenesis—Duloxetine was administered in the diet to mice and rats for 2 years.

In female mice receiving duloxetine at 140 mg/kg/day (11 times the maximum recommended human dose [MRHD, 60 mg/day] and 6 times the human dose of 120 mg/day on a mg/m² basis), there was an increased incidence of hepatocellular adenomas and carcinomas. The no-effect dose was 50 mg/kg/day (4 times the MRHD and 2 times the human dose of 120 mg/day on a mg/m² basis). Tumor incidence was not increased in male mice receiving duloxetine at doses up to 100 mg/kg/day (8 times the MRHD and 4 times the human dose of 120 mg/day on a mg/m² basis).

In rats, dietary doses of duloxetine up to 27 mg/kg/day in females (4 times the MRHD and 2 times the human dose of 120 mg/day on a mg/m² basis) and up to 36 mg/kg/day in males (6 times the MRHD and 3 times the human dose of 120 mg/day on a mg/m² basis) did not increase the incidence of tumors.

<u>Mutagenesis</u>—Duloxetine was not mutagenic in the *in vitro* bacterial reverse mutation assay (Ames test) and was not clastogenic in an *in vivo* chromosomal aberration test in mouse bone marrow cells. Additionally, duloxetine was not genotoxic in an *in vitro* mammalian forward gene mutation assay in mouse lymphoma cells or in an *in vitro* unscheduled DNA synthesis (UDS) assay in primary rat hepatocytes, and did not induce sister chromatid exchange in Chinese hamster bone marrow *in vivo*.

Impairment of Fertility—Duloxetine administered orally to either male or female rats prior to and throughout mating at doses up to 45 mg/kg/day (7 times the maximum recommended human dose of 60 mg/day and 4 times the human dose of 120 mg/day on a mg/m² basis) did not alter mating or fertility.

PATIENT COUNSELING INFORMATION: See FDA-approved Medication Guide and Patient Counseling Information section of full PI.

Literature revised August, 11, 2008

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# Control acute agitation with

# GEODON® for Injection | ziprasidone mesylate |

In schizophrenia. . .

# Rapid control\* with low EPS1-4

- Low incidence of movement disorders<sup>1-4</sup>
- Smooth transition, with continued improvement, from IM to oral therapy<sup>3,4</sup>
- May be used concomitantly with benzodiazepines<sup>2,3,5</sup>
- \*In 2 pivotal studies vs control, significance was achieved at the 2-hour primary end point (10 mg study) and at the 4-hour primary end point (20 mg study).



GEODON for Injection is indicated for the treatment of acute agitation in schizophrenic patients for whom treatment with GEODON is appropriate and who need intramuscular antipsychotic medication for rapid control of the agitation.

Elderly patients with dementia-related psychosis treated with atypical antipsychotic drugs are at an increased risk of death compared to placebo. GEODON is not approved for the treatment of patients with dementia-related psychosis.

GEODON is contraindicated in patients with a known history of QT prolongation, recent acute myocardial infarction, or uncompensated heart failure, and should not be used with other QT-prolonging drugs. GEODON has a greater capacity to prolong the QT\_c interval than several antipsychotics. In some drugs, QT prolongation has been associated with torsade de pointes, a potentially fatal arrhythmia. In many cases this would lead to the conclusion that other drugs should be tried first.

As with all antipsychotic medications, a rare and potentially fatal condition known as neuroleptic malignant syndrome (NMS) has been reported with GEODON. NMS can cause hyperpyrexia, muscle rigidity, diaphoresis, tachycardia, irregular pulse or blood pressure, cardiac dysrhythmia, and altered mental status. If signs and symptoms appear, immediate discontinuation, treatment, and monitoring are recommended.

Prescribing should be consistent with the need to minimize tardive dyskinesia (TD), a potentially irreversible dose- and duration-dependent syndrome. If signs and symptoms appear, discontinuation should be considered since TD may remit partially or completely.

Hyperglycemia-related adverse events, sometimes serious, have been reported in patients treated with atypical antipsychotics. There have been few reports of hyperglycemia or diabetes in patients treated with GEODON, and it is not known if GEODON is associated with these events. Patients treated with an atypical antipsychotic should be monitored for symptoms of hyperglycemia.

Precautions include the risk of rash, orthostatic hypotension, and seizures. In fixed-dose, pivotal studies, the most commonly observed adverse events associated with the use of GEODON for Injection (incidence  $\geq$ 5%) and observed at a rate in the higher GEODON dose groups (10 mg, 20 mg) of at least twice that of the lowest GEODON dose group (2 mg control) were somnolence (20%), headache (13%), and nausea (12%).

Please see brief summary of prescribing information on adjacent page.

Increased Mortality in Elderly Patients with Dementia-Related Psychosis: Elderly patients with dementia-related psychosis treated with atypical antipsycholic drugs are at an increased risk of death compared to placebo. Analyses of seventeen placebo controlled trial, (modal duration of 10 weeks) in these patients revealed a risk of death in the drug-treated patients of between 1.6 to 1.7 times that seen in placebo-treated patients. Over the course of a typical 10 week controlled trial, the rate of death in drug-treated patients was about 4.5%, compared to a rate of about 2.6% in the placebo group. Although the causes of death were varied, most of the deaths appeared to be either cardiovascular (e.g., heart failure, sudden death) or infectious (e.g., pneumonia) in nature. GEODON (ziprasidone) is not approved for the treatment of patients with Dementia-Related Psychosis.

INDICATIONS—GEODON Capsules is indicated for the treatment of schizophrenia and acute manic or mixed episodes associated with bipolar disorder with or without psychotic features. GEODON® (ziprasidone mesylate) for Injection is indicated for acute agitation is explanation and actions.

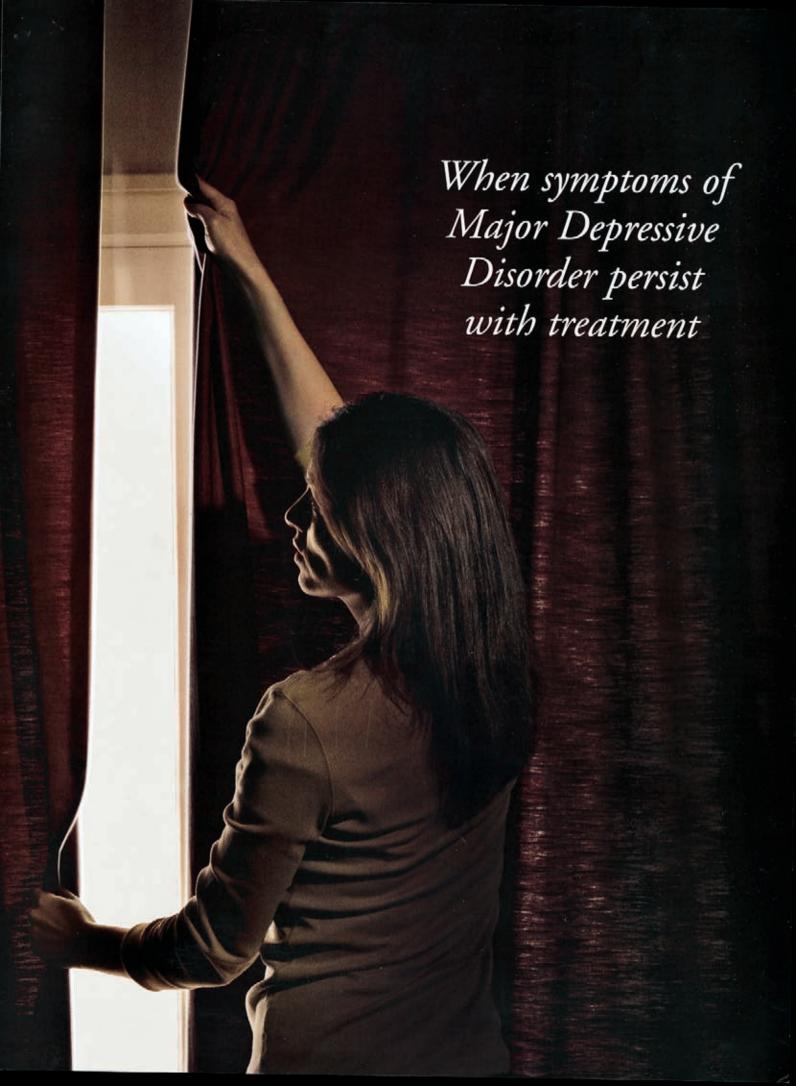
CONTRAINDICATIONS — QT Prolongation: Because of GEODON's dose-related prolongation of the QT interval and the known association of fatal arrhythmias with OT prolongation by some other drugs, GEODON is contraindicated in patients with a known history of OT prolongation (including congenital long QT syndrome), with recent acute myocardial infarction, or with uncompensated heart failure (see WARNINGS ) Pharmacokinetic/pharmacodynamic studies between GEODÓN and other drugs that prolong the QT interval have not been performed. An additive effect of GEODON and other drugs that prolong the QT interval cannot be excluded. Therefore, GEODON should not be given with dofetilide, sotalol, quinidine, other Class Ia and III anti-arrhythmics, mesoridazine, thioridazine, chlorpromazine, droperidol, pimozide, sparfloxacin, gatifloxacin, moxifloxacin, halofantrine, mefloguine, pentamidine, arsenic trioxide, levomethadyl acetate, dola mesylate, produced, or tacrolimus, GEDODN is also contraindicated with drugs that have demonstrated OT prolongation as one of their pharmacodynamic effects and have this effect described in the full prescribing information as a contraindication or a boxed or bolded warning (see WARNINGS). GEODON is contraindicated in individuals with a known hypersensitivity to the product. WARNINGS—Increased (see WARNINGS). GEODON'S Contrancated in indoutals with a known hypersensitivity to the product. WARNINGS—increased Mortality in Elderly Patients with Dementia-Related Psychosis: Elderly patients with dementia-related psychosis treated with atypical antipsycholic drugs are at an increased risk of death compared to placebo, GEODON (ziprasidone) is not approved for the treatment of patients with dementia-related psychosis (see Boxed Warning). *QT Prolongation and Risk of Sudden Death*: GEODON use should be avoided in combination with other drugs that are known to prolong the QT, interval. Additionally, clinicians should be alter to the identification of other drugs that have been consistently observed to prolong the QT, interval. Such drugs should not be prescribed with GEODON. A study directly comparing the QTT,T-prolonging effect of GEODON with several other drugs effective in treatment of schizophrenia was conducted in patient volunteers. The mean increase in QT, from baseline for GEODON ranged from approximately 9 to 14 msec greater than for four of the comparator drugs (risperidone, olanzapine, quetiapine, and halopperidol), but was approximately 14 msec less than the prolongation observed for thioridazine. In this study, the effect of GEODON on QT<sub>c</sub> length was not augmented by the presence of a metabolic inhibitor (ketoconazole 200 mg bid). In placebo-controlled trials, GEODON increased the OT, interval compared to placebo by approximately 10 msec at the highest recommended daily dose of 160 mg. In clinical trials the electrocardiograms of 2/2988 (0.06%) GEODON patients and 1/440 (0.23%) placebo patients revealed QT, intervals exceeding the potentially clinically relevant threshold of 500 msec. In the GEODON patients, neither case suggested a role of GEODON. Some drugs that prolong the OT/OT, interval have been associated with the occurrence of torsade de pointes and with sudden unexplained death The relationship of QT prolongation to torsade de pointes is clearest for larger increases (20 mese and greater) but its possible that smaller QT/QT<sub>c</sub> prolongations may also increase risk, or increase it in susceptible individuals, such as those with hypokalemia, hypomagnesemia, or genetic predisposition. Although torsade de pointes has not been observed in association with the use of GEODON are commended doses in premarketing studies, experience is too limited to rule out an increased risk. A study evaluating the OT/QT, prolonging effect of intramuscular GEODON, with intramuscular haloperidol as a control, was conducted in patient volunteers. In the trial, ECGs were obtained at the time of maximum plasma concentration following two injections of GEODON (20 mg then 30 mg) or trial, ECGs were obtained at the time of maximum plasma concentration following two injections of GEODON (20 mg then 30 mg) or haloperiold (7.5 mg then 10 mg) given four hours apart. Note that a 30 mg dose of intramuscular GEODON is 50% higher than the recommended therapeutic dose. The mean change in QT; from baseline was calculated for each drug using a sample-based correction that memore the effect of heart rate on the QT interval. The mean increase in QT; from baseline for GEODON was 4.6 msec following the first injection and 12.8 msec following the second injection. The mean increase in QT; from baseline for haloperidol was 6.0 msec following the first injection and 14.7 msec following the second injection. In this study, no patient had a QT; interval exceeding 500 msec. As with other antipsychotic drugs and placebo, sudden unexplained deaths have been reported in patients taked GEODON at recommended doses. The premarketing experience for GEODON did not reveal an excess of mortality for GEODON compared to other antipsychotic drugs or placebo, but the extent of exposure was limited, especially for the drugs used as active controls and placebo. Nevertheless, GEODON's larger prolongation of QT; length compared to several other antipsychotic drugs raises the possibility that the risk of sudden death may be greater for GEODON than for other available drugs for treating schizophrenia. This possibility needs to be considered in decidina mona alternative drug products. Certain incrumstances may increase the risk of the occurred for foscile the risk of sudden death may be greater for GEODON than for other available drugs for treating schizophrenia. This possibility needs to be considered in deciding among alternative drug products. Certain icroumstances may increase the risk of the occurred forsade de pointes and/or sudden death in association with the use of drugs that prolong the QT; interval, including (1) bradycardia; (2) hypokalemia or hypomagnesemia; (3) concomilant use of other drugs that prolong the QT; interval, and (4) presence of congenical prolongation of the QT interval. GEODON should also be avoided in patients with congenital long QT syndrome and in patients with a history of cardiac arrhythmias (see CONTRAINDICATIONS, and see *Drug Intervactions* under PRECAUTIONS). It is recommended that patients being considered for GEODON treatment who are at risk for significant electrolyte disturbances, hypokalemia in particular, have baseline serum potassium and magnesium measurements. Hypokalemia (and/or hypomagnesemia) may increase the risk of QT prolongation and arrhythmia. Hypokalemia may result from diuretic therapy, diarrhes, and other causes. Patients with boar boats and other mand/or magnesium should be repited with those electrolytes before proceeding with treatment. It is essential to periodically monitor serum electrolytes in patients for whom diuretic therapy is introduced during GEODON treatment. Persistently prolonged QT, intervals may ado increase the risk of Urruber orlongation and arrhythmia. Ut it is not clear that crotine screenine ECG measures are intervals may also increase the risk of further prolongation and arrhythmia, but it is not clear that routine screening for measures are effective in detecting such patients. Rather, GEODON should be avoided in patients with histories of significant cardiovascular illness, eg, QT prolongation, recent acute myocardial infarction, uncompensated heart failure, or cardiac arrhythmia. GEODON should be discontinued in patients who are found to have persistent QT; measurements >500 msec. Neuroleptic Malignant Syndrome (NMS): A potentially fatal symptom complex sometimes referred to as Neuroleptic Malignant Syndrome (NMS) has been reported in association with administration of antipsychotic drugs. The management of MMS should include: (1) immediate discontinuation of antipsychotic drugs and other drugs not essential to concurrent therapy; (2) intensive symptomatic treatment and medical monitoring; and (3) treatment of any concomitant serious medical problems for which specific treatments are available. If a patient requires antipsychotic drug treatment after recovery from NMS, the potential reintroduction of drug therapy should be carefully considered. The patient should be carefully monitored, since recurrences of NMS have been reported. *Tardive Dyskinesia (TD):* A syndrome of potentially irreversible, involuntary, dyskinetia since recurrences of NMS have been reported. Tardine Dyskinesia (TD): A syndrome of potentially irreversible, involuntary, dyskinetic movements may develop in patients undergoing treatment with antipsychotic drugs. Although the prevalence of TD appears to be highest among the elderly, especially elderly women, it is impossible to rely upon prevalence estimates to predict, at the inception of antipsychotic treatment, which patients are likely to develop TD. If signs and symptoms of TD appear in a patient on GEODON, drug discontinuation should be considered. Hyperglycemia and Diahetes Mellitus: Hyperglycemia-related adverse events. Senditiens services were these prediction patients treated with adypical antipsychotics. There have been few reports of hyperglycemia or diabetes in patients treated with GEODON, and it is not known if GEODON is associated with these events. Patients treated with an atypical antipsychotic should be monitored for symptoms of hyperglycemia, PRECAUTIONS—General: Basis, in premarketing trials, about 5% of GEODON patients developed rash and/or urticaria, with discontinuation of treatment in about one-sixth of these cases. The occurrence of rash was dose related, although the finding might also be explained by longer exposure in higher-dose patients. Several patients with rash had signs and symptoms of associated systemic illness, e.g., elevated WBCs. Most patients improved promptly upon treatment with antihistamines or steroids and/or upon discontinuation of GEODON, and all patients were reported to recover completely. Upon appearance of rash for which an alternative telotogy cannot be identified, GEODON should be discontinued Orthostatic Hypotension, GEODON magin though orthostatic hypotension associated with dizziness, tachycardia, and, in some patients, syncope, especially during the initial dose-titration period, probably reflecting its α, adrenegic antagonist properties. Synocpe was reported in 0.6% of GEODON patients. GEODON should be used with particular caution in patients with kno patients with known cardiovascular disease (history of myocardial infarction or ischemic heart disease, heart failure or conduction abnormalities), cerebrovascular disease or conditions that would predispose patients to hypotension (dehydration, hypovolemia, and treatment with antihypertensive medications). Seizures: In clinical trials, seizures occurred in 0.4% of GEODON patients. There were confounding factors that may have contributed to secures in many of these cases. As with other antipsychotic drugs, GEODON should be used cautiously in patients with a history of seizures or with conditions that potentially lower the seizure threshold, e.g., Alzheimer's dementia. Conditions that lower the seizure threshold may be more prevalent in a population of 65 years or older. <u>Dysphagia</u>: Esophageal dysmotility and aspiration have been associated with antipsychotic drug use. Aspiration pneumonia is a common cause of morbidly and mortality in elderly patients, in particular those with advanced Alzheimer's dementia, and GEODON and other antipsychotic drugs should be used cautiously in patients at risk for aspiration pneumonia. (See also Boxed WARNING, WARNINGS: Increased Mortality in Elderly Patients with Dementia-Related Psychosis). Hyperprolactinemia: As with other drugs that antagonize dopamine D<sub>2</sub> receptors, GEODON elevates prolactin levels in humans. Tissue culture experiments indicate that approximately one third of human breast cancers are prolactin dependent in vitro, a factor of potential importance if the prescription of these drugs is contemplated in a patient with previously detected breast cancer. Neither clinical studies nor epidemiologic studies conducted to date have shown an association between chronic administration of this class of drugs and furnorigenesis in humans; the available evidence is considered too limited to be conclusive at this time. <u>Potential for Cognitive</u>
and <u>Motor Impairment</u>; Somnolence was a commonly reported adverse event in GEODON patients. In the 4- and 6-week placebo-controlled
trials, somnolence was reported in 14% of GEODON patients vs 7% of placebo patients. Somnolence led to discontinuation in 0.3% of patients in short-term clinical trials. Since GEODON has the potential to impair judgment, thinking, or motor skills, patients should be cautioned about performing activities requiring mental alertness, such as operating a motor vehicle (including automobiles) or operating hazardous machinery until they are reasonably certain that GEODON therapy does not affect them adversely. <u>Prainsym: Postery Prainsym: Postery Prainsym:</u> disruption of the body's ability to reduce core body temperature has been attributed to antipsychotic agents. Suicide: The possibility of a suicide attempt is inherent in psychotic illness and close supervision of high-risk patients should accompany drug therapy. GEODON prescriptions should be written for the smallest quantity of capsules consistent with good patient management to reduce overdose risk Descriptions with Concomitant Ullnass. Clinical experience with GEODON in patients with certain concomitant systemic lilnesses is limited.
GEODON has not been evaluated or used to any appreciable extent in patients with a recent history of myocardial infarction or unstable heard disease. Patients with these diagnoses were excluded from premarketing clinical studies. Because of the risk of QT<sub>c</sub> prolongation and

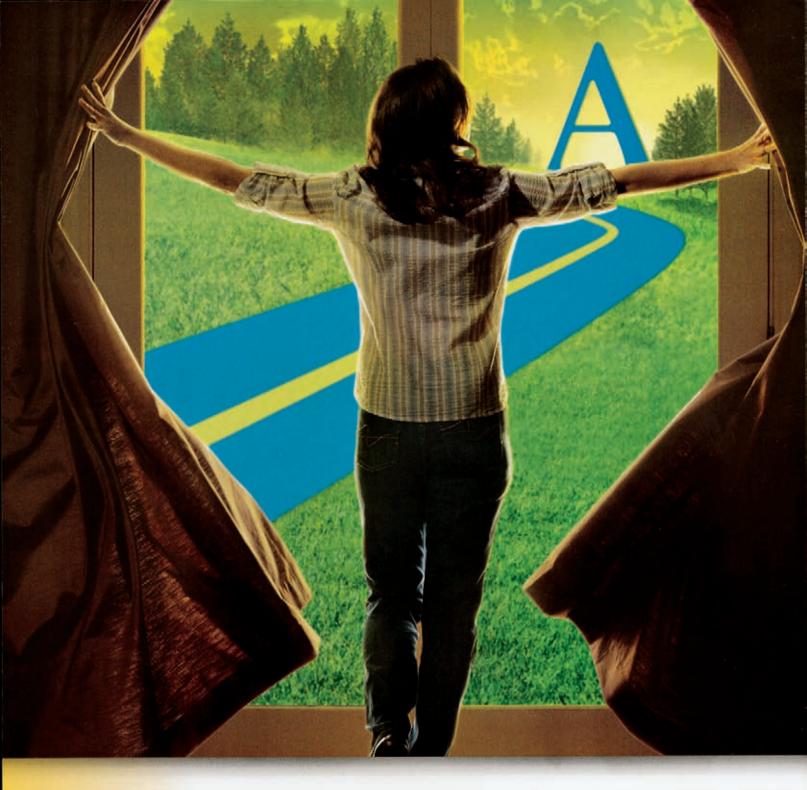
information and instructions in the Patient Information Sectionshould be discussed with patients. Laboratory Tests: Patients being considered for GEODON treatment who are at risk of significant electrolyte disturbances should have baseline serum potassium and magnesium measurements. Low serum potassium and magnesium should be repleted before treatment. Patients who are started on diuretics during GEODON therapy need periodic monitoring of serum potassium and magnesium. Discontinue GEODON in patients who are found to have persistent OT, measurements >500 msec (see WARNINGS). Drug Interactions: (1) GEODON should not be used with any drug that prolongs the OT interval. (2) Given the primary CNS effects of GEODON, caution should be used when it is taken in combination with other centrally acting drugs, (3) Because of its potential for including hypotension, EEDDON may enhance the effects of certain antihypotensive agents.

(4) GEODON may antagonize the effects of levodopa and dopamine agonists. Effect of Other Drugs on GEODON: Carbamazepine, 200 mg bid for 21 days, resulted in a decrease of approximately 35% in the AUC of GEODON. Ketoconazole, a potent inhibitor of CYP3A4, 400 mg qd for 5 days, increased the AUC and  $G_{mg}$  of GeODON by about 35%-40%. Cimetidine, 800 mg qd for 2 days, did not affect GEODON pharmacokinetics. Coadministration of 30 mL of Maalox did not affect GEODON pharmacokinetics. Population pharmacokinetic analysis of schizophrenic patients in controlled clinical trials has not revealed any clinically significant pharmacokinetic interactions with benztropine, propranolol, or lorazepam. <u>Effect of GEODON on Other Drugs</u>; in vitro studies revealed little potential for GEODON to interfere with the metabolism of drugs cleared primarily by CYP1A2, CYP2D3, CYP2D6, and CYP3A4, and little potential for drug interactions with GEODON due to displacement. GEODON 4 drug bid administered concentratily with *intim* 450 mg bid for 7 days did not be the steady-state level or renal clearance of lithium. GEODON 20 mg bid did not affect the pharmacokinetics of concomitantly administered *oral* state level or letal extended with the contraction of the contraction Impairment of Fertility: Lifetime carcinogenicity studies were conducted with GEDOON in Long Evans rats and CD-1 mice. In male mice, there was no increase in incidence of tumors relative to controls. In female mice there were dose-related increases in the incidences of pituitary gland adenoma and carcinoma, and mammary gland adenocarcinoma at all doses tested. Increases in serum prolactin were observed in a 1-month dietary study in female, but not male, mice. GEODON had no effect on serum prolactin in rats in a 5-week dietary study at the doses that were used in the carcinogenicity study. The relevance for human risk of the findings of prolactin-mediated endocrine tumors in rodents is unknown (see <u>Hyperprolactinemia). Mutagenesis</u>: There was a reproducible mutagenic response in the Ames assay in one strain of *S. hyphimurium* in the absence of metabolic activation. Positive results were obtained in both the in vitro mammalian cell inforestation of supminiminiminiminiminimini activation of activation of the control to control to the information of the control to the control to the control to control to the control to control to the control to t Is this recommended that women receiving GEODON should not breast feed. Pediatric Use: The safety and effectiveness of GEODON in pediatric patients have not been established. Geriatric Use: Of the approximately 4500 patients treated with GEODON in clinical studies, 2.4% (109) were 65 years of age or over. In general, there was no indication of any different tolerability for GEODON or of reduced clearance of GEODON in the elderly compared to younger adults. Nevertheless, the presence of multiple factors that might increase the pharmacodynamic response to GEODON, or cause poorer tolerance or orthostasis, should lead to consideration of a lower starting dose, slower titration, and careful monitoring during the initial dosing period for some elderly patients. ADVERSE REACTIONS — Adverse Findings Observed in Short-term, Placebo-Controlled Trials: The following findings are based on the short-term placebo-controlled premarketing trials for schizophrenia (a pool of two 6-week, and two 4-week fixed-dose trials) and bipolar mania (a pool of two 3-week flexible dose trials) in which GEODON was administered in doses ranging from 10 to 200 mg/day. Adverse Events Associated with Discontinuation: Schizophrenia: Approximately 4.1% (29/702) of GEODON-treated patients in short-term, placebo-controlled studies discontinued treatment contact principles Approximately 4-17 (237 oz 27 oz 250 oz adverse event, compared with about 3.7% (5/136) on placebo. The most common events associated with dropout in the GEODON-treated patients were akathisia, anxiety, depression, dizziness, dystonia, rash and vomiting, with 2 dropouts for each of these events among GEODON patients (1%) compared to one placebo patient each for dystonia and rash (1%) and no placebo patients for the remaining adverse events. Adverse Events at an Incidence ≥5% and at Least Twice the Rate of Placebo: The most commonly observed adverse events associated Adverse Events at an Incidence -5% and at Least Twice the Rate of Placebo: The most commonly observed adverse events associated with GEODON in schizophrenia trials were somnolence (14%) and respiratory tract infection (8%). The most commonly observed adverse events associated with the use of GEODON in bipolar mania trials were somnolence (31%), extrapyramidal symptoms (31%), diziness (16%), alathisia (10%), abnormal vision (6%), asthenia (6%), and vomiting (5%). The following list enumerates the treatment-emergent adverse events that occurred in 2% of GEODON patients and at a greater incidence than in placebo. Schizophrenia: Body as a Whole—asthenia, accidental injury, chest pain. Cardiovascular—tachycardia. Digestive—nausea, constipation, dyspepsia, diarrhea, dry mouth, anorexia, Beryous—extrapyramidal symptoms, somnolence, akathisia, dizziness. Respiratory—respiratory tract infection, rhinitis, cough increased. Skin and Appendages—rash, fungal dermatitis. Special Senses—abnormal vision. Bipolar Mania: Body as a Whole—headache, asthenia, accidental injury. Cardiovascular—hypertension. Digestive—nausea, diarrhea, dry mouth, vomiting, increased salivation, tongue edema, dysphagia, Musculoskeletal—myalgia, Nerouski disangent destructives as extensional control of the programment of the page of the speciations—based industric disangent destructives as a page of the programment of the page a saldrisis analysis. Investication special finance of the page of the pa Digistry— relative, dry fritourly, viniting, increasest startourly, ingredeventa, dyshriday, <u>hwd.cusecteam—ingrates newtourn</u> somnolence, extrapyramidal symptoms, dizziness, adathisia, anxiety, hypesthesia, specent disorder. <u>Bespiration—pharynglis</u>, dyspenas. <u>Skin and Appendages—fungal dermatitis. Special Senses—abnormal vision. <u>Dose Dependency:</u> An analysis for dose response interchizentheria trials revealed an apparent relation of adverse event to dose for the following: asthenia, postural hypotension, anorexia, dry mouth, increased salivation, arthralgia, anxiety, dizziness, dystonia, hypertonia, somnolence, termor, rhintis, rash, and abnormal vision. <u>Extrapyramidal Symptoms (EPS):</u> The incidence of reported EPS for EGDON patients in the short-term, placebo-controlled schizophrenia intals was 14% ws 8% for placebo. Objectively collected data from those trials on the Simpson-Angus Rating Scale and the mess Adathisia Scale did not generally show a difference between GEODON and placebo. *Vital Sign Changes*: GEODON is associated with orthostatic</u> Scale did not generally show a difference between GEODON and placebo. Wital Sign Changes: GEODON is associated with orthostatic hypotension (see PRECAUTIONS). Weight Gain: In short-term schizophrenia trials, the proportions of patients meeting weight gain criterion of ≥7% of body weight were compared, revealing a statistically significantly greater incidence of weight gain for GEODON patients (10%) by placebo patients (4%). A median weight gain of 0.5 kg was observed in GEODON patients vs 0.0 kg in placebo patients weight gain was reported as an adverse event in 0.4% of both GEODON and placebo patients. During long-term therapy with GEODON, a categorization of patients at baseline on the basis of body mass index (BMI) showed the greatest mean weight gain and the highest incident of clinically significant weight gain (c.7% of body weight) in patients with a low BMI (<25) compared to normal (32-27) or overweight (<27) patients. There was a mean weight gain of 1.4 kg for patients with a "low" baseline BMI, 0.0 kg for patients with a "normal" BMI, and a 1.3 kg mean weight loss for patients with a "normal" BMI. BCG Changes: GEODON is associated with an increase in the 0.7; interval (see WARNINGS). Inschizophrenia trials, GEODON was associated with a mean increase in heart rate of 1.4 beats per minute docrease among placebo patients. Other Adverse Events Observed During the Premarketing Evaluation of GEODON. Frequent adverse events are those occurring in at least 1/100 patients; infrequent adverse events are those occurring in 1/100 to 1/1000 patients; rare events are those occurring in ever than 1/1000 patients. Schizophrenia: Body as a Whole — Frequent: abdominal pain, flu syndrome, fever, accidental fall, face edema, chills, photosensitivity reaction, flank pain, hypothermia, motor vehicle accident. Cardiovascular System—Frequent Lachycardia, hypertension, postural hypotension, infrequent bradycardia, angina pectoris, atrial fibrillation, Rare: first-degree AV block, bundle branch block, philebitis, pulmonary embolus, cardiomegaly, cerebral infarct, cerebrovascular accident, deep thrombophlebitis, myocarditis, frombophlebitis, <u>Digestive System—Frequent</u> anorexia, vomiting, infrequent rehemorthage, dysphagia, tongue edema; Rare: gum hemorrhage, jaundice, fecal impaction, gamma glutamyl transpeptidase increased, hematemesis, ovsphaga, unique evenia, Azie, quim elimini agua, jauniuce, teta minjactioni, gariniar giunari yira laspepudase incleasea, neintaemento cholestatic jauniote, hepatitis, hepatomegal, leukoplakia of mounth, fatly liver deposit, melna Endocrine— Azie riborine incleasea, hypochromica nemia, lymphodyrosis, monocytosis, leukocytosis, leukopenia, eosinophilia, lymphadenopathy, Raze thrombocytopenia, hypochromica nemia, lymphodytosis, monocytosis, basophilia, lymphedema, polycythemia, thrombocythemia. Metabolic and Nutritional Disorders — Infrequent thirist, transminase increased, peripheral edema, hypocytogenia, creatine phosphokinase increased, alfaline phosphatase increased, hypercholesteremia, ehydration, lactic dehydrogenase increased, albuminuria, hypockalemia, Raze: BUN increased, creatinie increased, hyperfilipemia, hypocholesteremia, hyperkalemia, hypocholoremia, bypocholoremia, b adunimular, lypodaeniar, Azier obu micasear, creatimie increaseu, rippempenta, ripportiosetterina, ripperalenta, ripportiosetterina, ripperalenta, ripportiosetterina, ripperalenta, ripportiosetterina, ripperalenta, ripportiosetterina, ripportiose relieves increased, urising <u>heighting ysystem</u> — Prequent uyspirea, <u>infrequent previousla, episaaks, radre ientropyss, lanyingstrase</u>, which are <u>hopendages</u>— <u>Infrequent maculopapular rash, uriticaria, alopecia, eczema, exfoliative dermatitis, contact dermatitis, vesiculobullous rash. <u>Special Senses</u>— <u>Frequent fungal dermatitis; Infrequent conjunctivitis, dry eyes, tinnitus, blepharitis, cataract, photophobia; <u>Rare-eyehemorhage</u>, visual field defect, keratitis, keratoconjunctivitis. <u>Unogenital System</u>— <u>Infrequent impotence, ahonomal jeaculation, amenorrhea, hematuria, menorrhagia, female lactation, polyuria, urinary retention, metrorrhagia, male sexual dysfunction, uterine hemorrhage. Adverse <u>Finding Observed in Trials of Intramuscular GEODON:</u> in these studies, the most commonly observed adverse events associated with the use of intramuscular <u>GEODON is finding to intermental for EODON is finding to intermental for EODON is finding to intermental text their inchiences. The contractivity of the properties of the </u></u></u></u> with the use of intramuscular GEODON (25%) and observed at a rate on intramuscular GEODON (in the higher dose groups) at least twice that of the lowest intramuscular GEODON group were headache (13%), nausea (12%), and somnolence (20%). Adverse Events a micidience >1% in Short-Term Fixed-Dose Intramuscular Trials: The following list enumerates the treatment-emergent adverse events that occurred in ≥1% of GEODON patients (in the higher dose groups) and at least twice that of the lowest intramuscular GEODON group. Bodyasa Whole—headache, injection site pain, asthenia, abdominal pain, flusyndrome, back pain. Cardiovascular—postural hypoterision, hypertension, bradycardia, vasodilation. <u>Digastive</u>—nausea, rectal hemorrhage, diarrhea, vomiting, dyspepsia, anorexia, constipation, tooth disorder, dry mouth. <u>Nervous</u>—dizziness, anxiety, insomnia, somnolence, akathisia, agitation, extrapyramidal syndrome, hypertonia, cogwheel rigidity, paresthesia, personality disorder, psychosis, speech disorder. Respiratory—minitis. Skin and Appendages—furunculosis, sweating. Urogenital—dysmenorrhea, priapism. DRUG ABUSE AND DEPROLENCE—Controlled Substance Class: 6C00ON is not a controlled substance. OVERDOSAGE—In premarketing trials in over 5400 patients, accidental or intentiol everdosage of GEODON was documented in 10 patients. All patients survived without sequelae. In the patientaking the largest confirmed amount (3240

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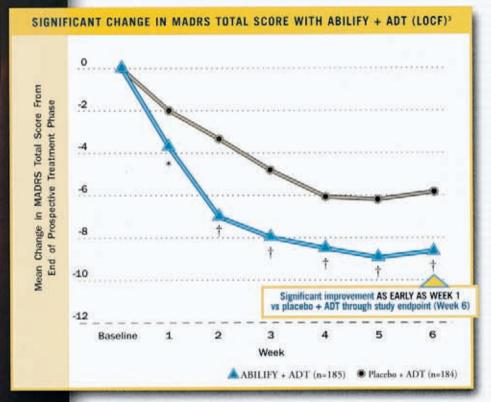


Antidepressants increased the risk compared to placebo of suicidal thinking and behavior (suicidality) in children, adolescents, and young adults in short-term studies of Major Depressive Disorder and other psychiatric disorders. Patients of all ages who are started on antidepressant therapy should be monitored appropriately and observed closely for clinical worsening, suicidality, or unusual changes in behavior, especially during the initial few months of therapy, or at times of dose changes. ABILIFY is not approved for use in pediatric patients with depression (see Boxed WARNING).

# Take the next step to help provide needed relief

The *first and only* adjunctive therapy to antidepressants for adults with Major Depressive Disorder (MDD)<sup>1</sup>

 Significantly improved depressive symptom relief with adjunctive ABILIFY over standard antidepressant therapy alone



Symptoms measured by MADRS Total Score:

Apparent Sadness
Reported Sadness
Lassitude
Inability to Feel
Concentration Difficulties
Pessimistic Thoughts
Reduced Appetite
Inner Tension
Reduced Sleep
Suicidal Thoughts

MADR5=Montgomery-Asberg Depression Rating Scale.

Adapted from Marcus et al. J Clin Psychopharmacol. 2008.

\*Pe0.01 vs placebo.

1/50.001 vs placebo. MADRS Total Score is rated from 0-60. ABILIFY dosing; 5 mg/day starting dose, 15 mg/day maximum dose for patients receiving fluoretine or paroxetine CR, or 20 mg/day for all other patients.

Chart represents one of two registrational trials of adults with nonpsychotic MDD who had an inadequate response to prior antidepressant therapy (1 to 3 courses) in the current episode and an inadequate response to 8 weeks of prospective treatment with a leading antidepressant therapy.

- In a second registrational trial, significant results were demonstrated as early as Week 2 and continued through study endpoint (Week 6) as measured by mean change in MADRS Total Score
- Few discontinuations due to adverse reactions: ABILIFY + ADT 6% vs placebo + ADT 2%
- In 6-week adjunctive MDD trials, commonly observed adverse reactions of ABILIFY + ADT vs placebo + ADT (≥5% incidence and at least twice the rate of placebo) included akathisia (25% vs 4%), restlessness (12% vs 2%), fatigue (8% vs 4%), insomnia (8% vs 2%), blurred vision (6% vs 1%), and constipation (5% vs 2%)



HELP ILLUMINATE THE PERSON WITHIN

### IMPORTANT SAFETY INFORMATION and INDICATION for ABILIFY" (aripiprazole)

#### INDICATION

ABILIFY is indicated for use as an adjunctive therapy to antidepressants for the acute treatment of Major Depressive Disorder in adults

#### IMPORTANT SAFETY INFORMATION

Increased Mortality in Elderly Patients with Dementia-Related Psychosis

Elderly patients with dementia-related psychosis treated with antipsychotic drugs are at an increased risk (1.6 to 1.7 times) of death compared to placebo (4.5% vs 2.6%, respectively). Although the causes of death were varied, most of the deaths appeared to be cardiovascular (eg, heart failure, sudden death) or infectious (eg, pneumonia) in nature. ABILIFY is not approved for the treatment of patients with dementia-related psychosis.

Suicidality and Antidepressant Drugs

Antidepressants increased the risk compared to placebo of suicidal thinking and behavior (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 adjunctive ABILIFY or another antidepressant in a child, adolescent, or young adult must balance this risk with the clinical need. Short-term studies did not show an increased risk of suicidality in adults beyond age 24. Depression and certain other psychiatric disorders are themselves associated with increases in the risk of suicide. Patients of all ages who are started on antidepressant therapy should be monitored appropriately and observed closely for clinical worsening, suicidality, or unusual changes in behavior. Families and caregivers should be advised of the need for close observation and communication with the prescriber. ABILIFY is not approved for use in pediatric patients with depression.

See Full Prescribing Information for complete Boxed WARNINGS Contraindication - Known hypersensitivity reaction to ABILIFY. Reactions have ranged from pruritus/urticaria to anaphylaxis.

- Cerebrovascular Adverse Events, Including Stroke Increased incidence of cerebrovascular adverse events (eg, stroke, transient ischemic attack), including fatalities, have been reported in clinical trials of elderly patients with dementia-related psychosis treated with ABILIFY
- Neuroleptic Malignant Syndrome (NMS) As with all antipsychotic medications, a rare and potentially fatal condition known as NMS has been reported with ABILIFY, NMS can cause hyperpyrexia, muscle rigidity, diaphoresis, tachycardia, irregular pulse or blood pressure, cardiac dysrhythmia, and altered mental status. If signs and symptoms appear, immediate discontinuation is recommended
- Tardive Dyskinesia (TD) The risk of developing TD and the potential for it to become irreversible may increase as the duration of treatment and the total cumulative dose increase. Prescribing should be consistent with the need to minimize TD. If signs and symptoms appear, discontinuation should be considered since TD may remit, partially or completely
- Hyperglycemia and Diabetes Mellitus Hyperglycemia, in some cases associated with ketoacidosis, coma, or death, has been reported in patients treated with atypical antipsychotics including ABILIFY. Patients with diabetes should be monitored for worsening of glucose control; those with risk factors for diabetes should undergo baseline and periodic fasting blood glucose testing. Patients who develop

symptoms of hyperglycemia should also undergo fasting blood glucose testing. There have been few reports of hyperglycemia with ABILIFY

Orthostatic Hypotension - ABILIFY may be associated with orthostatic hypotension and should be used with caution in patients with known cardiovascular disease, cerebrovascular disease, or conditions which would predispose them to hypotension.

Seizures/Convulsions - As with other antipsychotic drugs, ABILIFY should be used with caution in patients with a history of seizures or with conditions that lower the seizure threshold.

Potential for Cognitive and Motor Impairment - Like other antipsychotics, ABILIFY may have the potential to impair judgment, thinking, or motor skills. Patients should not drive or operate hazardous machinery until they are certain ABILIFY does not affect them adversely.

Body Temperature Regulation – Disruption of the body's ability to reduce core body temperature has been attributed to antipsychotics. Appropriate care is advised for patients who may exercise strenuously, be exposed to extreme heat, receive concomitant medication with anticholinergic activity, or be subject to dehydration.

Suicide - The possibility of a suicide attempt is inherent in psychotic illnesses, Bipolar Disorder, and Major Depressive Disorder, and close supervision of high-risk patients should accompany drug therapy. Prescriptions should be written for the smallest quantity consistent with good patient management in order to reduce the risk of overdose.

Dysphagia - Esophageal dysmotility and aspiration have been associated with antipsychotic drug use, including ABILIFY; use caution in patients at risk for aspiration pneumonia.

Physicians should advise patients to avoid alcohol while taking ABILIFY.

Strong CYP3A4 (eg, ketoconazole) or CYP2D6 (eg, fluoxetine) inhibitors will increase ABILIFY drug concentrations; reduce ABILIFY dose by one-half when used concomitantly, except when used as adjunctive treatment with antidepressants in adults with Major Depressive Disorder.

CYP3A4 inducers (eg. carbamazepine) will decrease ABILIFY drug concentrations; double ABILIFY dose when used concomitantly.

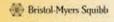
Commonly observed adverse reactions (≥5% incidence and at least twice the rate of placebo for adjunctive ABILIFY vs adjunctive placebo, respectively):

Adult patients (with Major Depressive Disorder): akathisia (25% vs 4%), restlessness (12% vs 2%), insomnia (8% vs 2%), constipation (5% vs 2%), fatigue (8% vs 4%), and blurred vision (6% vs 1%)

Dystonia is a class effect of antipsychotic drugs. Symptoms of dystonia may occur in susceptible individuals during the first days of treatment and at low doses.

References: 1. PDR Electronic Library (n.d.). Greenwood Village, CO: Thomson Micromedex. http://www.thomsonhc.com. Accessed October 16, 2007. 2. Berman RM, Marcus RN, Swanink R, et al. The efficacy and safety of aripiprazole as adjunctive therapy in major depressive disorder: a multicenter, randomized, double-blind, placebo-controlled study. J Clin Psychiatry. 2007;68:843-853. 3. Marcus RN, McQuade RD, Carson WH, et al. The efficacy and safety of aripiprazole as adjunctive therapy in major depressive disorder: a second multicenter, randomized, double-blind, placebo-controlled study. J Clin Psychopharmacol. 2008;28:156-165.

Please see BRIEF SUMMARY OF FULL PRESCRIBING INFORMATION. including Boxed WARNINGS, on adjacent pages.





ABILIFY® (aripiprazole) Tablets

ABILIFY DISCMELT® (aripiprazole) Orally Disintegrating Tablets

ABILIFY® (aripiprazole) Oral Solution

Brief Summary of Prescribing Information. For complete prescribing information consult official package insert.

WARNINGS: INCREASED MORTALITY IN FLOERLY PATIENTS WITH DEMENTIA-RELATED PSYCHOSIS and

SUCIDALITY AND ANTIDEPRESSANT DRUGS

Fiderly patients with dementia-related psychoics treated with aspical antipsychotic drups are at an increased risk of death compared to placebo. Analysise of seventeene placebo-controlled trials (modal duration of 10 weeks) in these patients revealed a risk of death in the drug-treated patients of between 1.5 to 1.7 times that seen in placebo-treated patients. Over the source of a typical 10-week controlled trial, the rate of death in drug-breated patients was about 4.5%, compared to a rate of about 2.5% in the placebo group. Although the causes of death were varied, must of the deaths appeared to be either cardiovascular (eg. heart failure, sudden death) or infectious (eg. pneumonia) in nature. ABILIFY is not approved for the treatment of patients with dementia-related psychosis [see Warnings and Precautions].

psychologies (see Warnings and Precautions).

Antidepressants increased the risk compared to placebo of suicidal thinking and behavior (suicidality) in children, addrescents, and young adults in short-term studies of Major Depressive Disorder (MIDI) and other psychiatric disorders. Anyone considering the use of adjunctive ABILEF or any other antidepressant in a child addrescent, 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 compared to placebo in adults beyond age 24; there was a reduction in risk with antidepressants compared to placebo in adults aged 65 and older. Depression and certain other psychiatric disorders are themselves associated with increases in the risk of suicide. Patients of all ages who are started on antidepressant therapy should be monitored appropriately and observed closely for clinical worsening, suicidality, or unusual changes in behavior. Families and caregivers should be advised of the need for close observation and communication with the prescriber. ABILEFY is not approved for use in pediatric patients with depression (see Warnings and Precautions).

INDICATIONS AND USAGE: ARILEY (propopulate) is indicated for one as an adjunctive therapy to unidepressants for the acute treatment of Major Depressive Disorder in adults (see Clinical Studies (14.3) in Full Prescribing Information).

CONTRANSIGATIONS shown hypersemberty reaction to ABLET. Reactions have ranged from practical to anaphysical (see Adverse Reactions).

ANAMINES AND PRECAUTIONS. One in Electry Potents with Demonstra Related Population in processor Monthly, Electry patients with demonstra related population in management Monthly, Electry patients with demonstra-related population through an administration of the patients with demonstra-related population through a sent approved for the incurrent of patients with demonstra-related population (one Soveral Manning).

Cerebrovaccular Adverse Events, including Strike: in placeto-controlled clinical student story hashed one and one hand does include demonstra-related population. There was an excessor incolored of entire related adverse events (e.g., strike, frament attacker, attack) of demonstra-related population. There was an excessor of experimental adverse events in the fixed-one study, there was an extractional population and appropriate framental professor in a strike in the extraction of the related one response relationship for cerebrovaccular adverse events in patients in an appropriate framental professor in the institute of control and in the electron students. rds with dementia-related psychosis (see also Blowd Warrshof)

does response relationship for cerebrovacular adverse venta in patients trained with apoptable is not approved to the treatment of patients with present perchang lives also Board Manning.

Softly Experience in Ederly Protects with prochosis Associated with Alchemen's Disease: in three, 10-week, placeto-compiled studies of arbitrated in alchements are selected with Alchemen's disease; in 1974. However, placeto-compiled studies of arbitrated in alchements disease in 1935, man age; 62.4 years; mage; 56-99 years), the treatment represents adverse events that aren reported at an arbitrated control of the arbitrated represents adverse events that aren reported at an arbitrated of the arbitrated between the selection of the arbitrated arbitrated of the arbitrated arbitrated of the arbitrated of efficiency of AELF in the treatment of patients with prochose associated with committee arbitrated of the established of the processor of enclased patients of the enterpolic of arbitrated or arbitrated or arbitrated of the enterpolic of arbitrated or arbitrated or

about drug effect on suicide.

an aterior the succidity risk extends to longer-term use, is, beyond several months. However, there is substantial evidence from drolled maintenance think in adults with dispression that the use of antidepressants can delay the recurrence of dispression.

placeto controlled maintenance trials in adults with oppression that the use of antidepressants can obesit the recurrence of depression. All patients being threated with artificipressants for any indication should be renetted appropriately and observed closely for clinical workering, sociability, and unusual changes in behavior, especially during the intable few months of a course of drug therapy, or all times of does changes, either increases or decreases. The following propriams, animals, applicator, paris allowing, materials, healths again, severes, implicitly, admitted appropriamstar residencessant, hypomans, and mans, have been reported an adult and prediction patients being based with artificipressants for Major Repressive Direction as well as for other indications, both psychiatric and recognishment. Allowing is a most into between the emergence of such expensions of either the versioning of depressions unable. The emergence of such expensions in the emergence of such expensions are severed expensions. The emerging sociability.

Consideration should be given to changing the therapectic regimen, including possibly deconforming the medication, in potential whose depression is presistently whose, in which are appreciation of the employers in such as a persistently work, or with or an expension of emergence in such districts of the employers are severe, about in note, or were not part in the patient's presenting symptoms.

especially if these symptoms are server, struct in const, or were not part of the platent's presenting symptoms.

Families and caregivers of patients being treated with antidepressants for Major Repressive Discorder or after indications, both psychiatric and nongrephilatric, should be alerted about the secol to monitor patients for the emergence of adjution, imitability, incusual changes in behavior, and the other symptoms observable above, as well as the emergence of subcidility, and to export such symptoms for above the second or such symptoms of the second or such second or such symptoms and acceptant. Prescriptions for ABLET should be written for the enulated causely of tablets consistent with quote patient insurperment, in order to reduce the risk of average of ABLET should be written for the enulated causely of tablets consistent with quote patient insurperment, in order to reduce the risk of average of the operation and possible for the size of the dependent of the patients of the patients for the State State

deferrate if they are all risk for Bipolar Disorder; such screening should include a detailed psychiatric history, including a family history of suicide. it should be noted that ABLEY is not approved for use in theating depression in the pediatric population.

It should be noted that ABLE\* Is not approved for use in this top operation in the pediatric population.

Mexically Malignant Syndrome (AMS) - A potentially fatal syntphin complex sometimes referred to as Neuroinpic Malignant Syndrome (AMS) in any occur with administration of an elegisphoto draps, including propriatric. Pare cases of AMS occurred during engineering the statement in the workwhole climinal statistics. Climical manifestations of AMS are hyperspecial, musical reports participly attented mental states, and evidence of additional states and confect operationally propriate policies of Neuroscientific departments, displacents, and confect operationally, Additional signs may include elevated outside phosphokensee, mysophotomical phosphokensee, phosphokensee, mysophotomical phosphokensee, mysophoto

and primary central nervous system pathology.

and printary certain revious system publishing.

The management of MAS should include: 1) immediate discontinuation of anticoyconic drugs and other drugs not essential to concurrent therapy;

ii) intensive symptomistic breatment and medical monitoring; and ii) breatment of any concomitant serious medical problems for which specific translations are supported by the system of th

The risk of developing turdive dyskinesia and the likelihood that it will become ineventible are believed to increase as the duration of brastnerst

and the total cumulative dose of antipsycholic drugs administrated to the patient increase. However, the syndrome can develop, although much less commonly, after relatively bould freathent bendon at low doses. There is no seroum treathent the established cases of textile dyskicesis, afficiently the syndrome may ment, partially or completely. If antipsycholic beatment is withdrayen, Arthosycholic treatment, their, however, may according partially according to some or and antipsy concern. The effect that symptomatic suppression has upon the long-term course of the syndrome is unknown

symptomics suppresson as upon the long-term outsile of the syndrome of selections. Seven these considerations, ARE, FY (explorately) should be prescribed in a manner that is most likely to entering the occurrence of further dyskinesis. Ozonic untrayected braintent should be reserved the patients who soften from a chronic literation to it is assumed to antique of the artificial terms of the symptomic of the artificial control of the symptomic o

or the programs, and Diobetes Melistus - Hyperphysensis, in nome cases extreme and associated with introduction or hypersensis come or shall, has been reported in patients frouted with algorith an expension. These have been free reports of hyperphysicals in patients treated with ASELEY been Advance Persolated Although fewer patients have been been treated with ASELEY it is not shown if this ment infland expensions in the extreme although extreme although extreme although an expension of the relationship between although surports, case and glucose although extreme although the propriet and the increased background risk of diabetes reviellable in patients with Schoolphrenia and the increased production of Madeles meillas in the general population. O'Ann finese controunders, the missionship between atspical intropotatic use and hyperghorma-relates advance events is not completilly understood. Newveer, epidemiclopical studies which did not include ARUFF august an increased risk of seathern renegant hypergylcomia-related advance events in patients highligh with the attityce antibuy/choics included in these studies. Became ISUFF was not marketed at the time break studies were performed, it an not income ARUFF is associated with this increased risk. Precise risk. estimates for hyperphysimia-related adverse events in publicits treated with shocal articolycholics are not available.

estimates for operagramma-restrict source event in process of the control and projections are not exceed to the process of the process of the control of the

set-counter treatment complete occordination of the suspect days.

Offetbodate Mypothesian - Amparation may cause enhancials hypothesian, perhaps due to its mouthnesses of analyzation associated events from short-term, placeton controlled brain of adult patients on and ASILPY (m-2467) included (amparative incidence) software incidence) and reduction (%, 0.3%), postural distances (3.5%, 0.3%), included (amparative incidence) software individual controlled brain of advicesse in system of the suspect (3.5%, 0.4%). The incidence of a syndroid ordination of analysis or observation of the syndroid ordination of a syndroid ordination of a syndroid ordination of a syndroid ordination or observation of the syndroid ordination or observation of the syndroid ordination or software ordination or ordination or software ordination or ordination or ordination or software ordination or ordination or ordination or ordination or ordination ordination ordination or ordination ordination or ordination or

spoystenia, and freshrent with untilsperimose medicational

Setures/Convelence - In short-term, pacedo-controlled their, secures conventions occurred in 6.7% (A/2467) of adult patients treated with oral amportance. As with other ampropriated drugs, importance should be used caudiously in patients with a history of secures or with conditions that lower the secure threshold, og, Agterman's dements. Conditions that lower the secure threshold may be more precision in a population of

Peterdal for Cognitive and Motor Impairment - ADLEP( We other autoparticious may have the potential to impair judgment, thinking, or motor skills. For example, in short-term, placebo controlled thats, ammelience linculating sections, was reported as follows propriate incidence, placebo notionosis in each patients in 24677 treated with oral ADLEP( 111%, BML Sommolence (including section), led to decortination in 1871 (187487) of adult patients on any ADLEP in sport-term, placebo-controlled thats. Despite the restheir process increased motions of these worths. ared to placed undertain should be calcined about operating historical machinery, including automobiles, with they are reasonably certain Terapy with ARLIPT does not affect them adversing.

Body Remperature Regulation - Disruption of the body's ability to reduce core body temperature has been attributed to and Appropriate care is advaced when prescribing programme for patients who will be experiencing conditions which may combible to an electron in one body temperature, led, exercising strenuously exposure to exhibit heat, receiving concomitant medication with articholinengic activity, or being subject to dehigration.] (see Adverse Reactions).

Suicide - The possibility of a suicide adempt is interest in psycholic Bresser, Epiclar Disorder, and Major Depressive Dispriler, and clase secretary of high each pullets should accurately the systems, regardless, space opposed on Mage Depressive Usatella, and other secretarial high each pullets should accurately for the pullets should be written by the smallest quantity considered with good patient management in order to reduce the risk of overtices (see Advance Receiting). In this G-evek, pacino-controlled studies of anyopirousle as adjunctive treatment of Major Depressive Disorder, the incidences of associate deathor and disorder administration of the C-evek, pacino-controlled studies of anyopirousle and 0.5% (g/Dee) for placetics.

The physiological demonstration from application have been associated with antiprophotic drug use, including ABLEY. Application presuments is a common cause of montality and montality in electric profests, in particular those with advanced Albertners dementa. Argonomic and other antiprophotic drugs should be used caudiously in patients at risk for appropriate presuments (see Hamings and Pressudent and Adverse Reactions).

the in Pytients with Concomitant Bises - Crimial expension with ARLEY is patients with certain concomitant systems; divenues is lented Jue (the in Specific Psychotoxic). ARLEY has not been evaluated or used to any approximate estent is patients with a recent indusy of impoundable infaction or unstable hand divenue. Publish with these diagrams were excluded from premarketing direct states; liver Warmings and Psychologia.

ADVENSE REACTIONS: Overall Adverse Reactions Profile - The following are decussed in more detail in other sections of the labeling (see Slayer Warming and Warmings and Precadent); tills in Elicitry National with Dementia-Related Psychosis. Clinica Worsering of Degrees and Succide Rick, Muscledeth, Missignant Syndrome Mills: Earlier Dyshresia: Hyperphysinis and Diabeth Mellin. Other Missignant Syndrome Mills: Earlier Dyshresia Psychologis. Social Diabeth Mellin. Other Dyshresia with Secures/Convolutions: Profestial for Cognitive and Matter Impairment. Body Temperature Regulation. Succide. Dysphaga. Use in Patients with Concenitant Deed.

The most common adverse reactions in adult patients in clinical trials (±10%) were nausea, vomiting, constitution, headache, dozinese. (Address, Arwell), mocrons, and recitedoness.

Apparatile has been evoluted for subty in 13,543 with patients who participated in multiple dates clinical trials in Schönpferens, Blooke Desorter.

Again Cognissive Discrete, December of the Authorism's Species and produced in an absolute of the Authorism's Species and the Authorism's Species and the Authorism's Species and the Authorism's Species and Authorism's Spec

Clinical Studies Experience - Adult Patients Receiving ARSEPT as Adjunctive Treatment of Major Depressive Disorder: The follows findings are taked on a pool of two placeho-controlled bias of patients with Major Depressive Disorder in which are proceeded above of 2 mg to 20 mg as adjunctive Instituted and depression if terapy.

Adverse Reactions Associated with Discontinuation of Teatment. The incidence of discontinuation due to adverse reactions was EVs for adjunctive ampropries trained patients and 2% for adjunctive placebo trained patients.

Community Observed Adverse Reuntions The commonly observed adversor reactions associated with the use of adjunctive artiginguistic in patients.

with Major Depressive Disorder incidence of 5% or greater and artipproprie incidence of least twice that for placeton were sketfinials restlessness. incomma, constitution, fatigue, and blumed vision

Less Common Adverse Reactions: The following treatment-invergent reactions reported at an incidence of a 2%, nounded to the resured per the combined was established in a proposal place of the proposal and a proposal and a combined as 2 m, thousand as the feeting short-bitm up to 6 weeks, placebo controlled tools, proposaled in ADT m.337, placebo = ADT m.358; respectively, were abouttons 25%, 45%, sendentions (15%, 25%, 26%, placebo controlled tools, proposaled in ADT m.337, placebo = ADT m.358; respectively, were abouttons 25%, 45%, sendentions (15%, 25%, but approximately 45%, 25%, offenable 25%, 35%, upper respectively that offencing 45%, 45%, therefore which 45%, 15%, because of 5%, 45%, contribution 5%, 25%, offenable 25%, 35%, degree 15%, 25%, because of 25%, 25%, because of 25%, 25%, destination of a standard 15%, 25%, and performance (15%, 25%, and performance (15%,

Dose-Related Adverse Reactions:

Dose-Neutro Adverse Nections: Extraprendial Symptoms in the short-arm, placeto-computed trails in Major Depressive Disorder, the incidence of reported DPS-related events, excluding events related to skitchises, for adjunctive amounts of establish participation was 5% vs. 5% for adjunctive placeto-breated patients, and the incidence of skitchises related events for adjunctive amounts related events. Otherstore or section of skitchises related events are concentrated on the Simpton Angue starting State for EPS, the Blancet Assistance of events and the Assessments of incidency Movement States for opinion Angue starting State for the State of the Assessments of incidence placeto for additional and the Barrier Assistance State States of the Assessments of Involuntary Movement States were smaller for the adjunctive placeto for adjunctive placet unctive placebe groups

Dystonia: Class Effect Symptoms of dystoria, prolonged atnormal contractions of muscle-groups, may occur in ausorptible indivi-The first lever days of treatment. Diptionic symptoms include spaces of the neck muscless, committees progressing to lightness of the broad, musclessing difficulty, difficulty besidency, and originates and the broads with the expreparate care control from the control of the c

Laboratory Test Anomalities: to the in-west traits of angoquative as adjunctive Terapy for Major Depressive Disorder, there were no clinically emportant differences between the adjunctive angopratise feature and adjunctive placebo insules patients in the median strange from baseline in president, facility glazzous-POL, LDL, or both diselected incorporation. The resident is obtained to the placebox was 5% for adjunctive. ariplorazole-treated patients in: 0% for adjunctive placebo-treated patients.

Weight Galle in the trials adding propriative to andispressants, potents that received 8 weeks of andispressant treatment tolowed by 6 weeks of adunctive adoptives or placetic in addition to their origining andidipressant treatment. The mean weight gain with adjunctive importance was 1.2 kg as , 0.4 kg with adjunctive placetive placeties proposition or patients meeting a weight gain patients of a 7% of body weight was 5% with adjunctive appropriate placeties proposition or patients.

ECG Changer: Between group comparisons for a pooled analysis of placeton-controlled ball, in patients with Major Depressive Discrete recorded on applicant. Afterences Settlemen or all reports of placeton in the proportion of patients experiencing pointurbally reported changes as for parameters. Application and accessed with a medium increase in least time of 2 house per manufact compared to no express entering placeto patients.

Other Adverse Reactions Observed During the Premarkship Evaluation of Applications from a set of the MediFAI horses that medium aboverse reactions as defended in Adverse Reactions reported by purplements translate with real emphasises of employee decrees a 2 registery during any placet of a bill within the distribution of 13,543 what patients, and impropriets be only the proportion of t

Adults: Dal Administration — Black and European Estima Decreases > 1/1000 patients - indication, cardiocations of the property of the patients of the patients

Postmarketing Experience - The following adverse nections have been contribed during post-approval use of ARE.FY temporablet. Because these reactions are reported voluntarily from a population of encertain size, it is not always possible to establish a classial relationship to drug exposure rare occurrences of always reaction (analysis before the action, angewelens, temporables, paretters in the above, or corphographic spaces).

And blood disconsing institutions.

DRUG INTERACTIONS: Given the primary CNS effects of arroprazore, caution should be used when ABILPY is taken in commission with other centrally-acting drugs or accords. Due to its alpha atterioring antiagonism, arroprazole has the potential to enhance the effect of centain antifluoridensities accords.

Potential for Other Drugs to Affect ASILEY - Anippraces is not a substrate of CHPIA1. CHPIA2. CHPIA6. CHPIA6.

Sent CPSA4 and CPPDG are responsible for any parable mistodium. Agents that induce CPSA4 leg, carbomasterine; coolid cause at screens in approache characce and lever tolood isselfs, inhibitors of CPSA4 leg, ketoconardely or CPP206 (vg., quintime, fluoretime, or carbomasterine) and controlled cause of controlled causes of controlled causes of controlled causes of controlled causes of causes of

Ketoconazole and Other CYP3A4 simbotos: Coadministration of ketoconazole (200 rigidity for 14 days) with a 15 mg simple done of an operazole increased the AUC of anoporazole and its above metabolite by 83% and 77%, respectively. The effect of a higher ketoconazole dose (400 mg/kgly) has not been studied. When ketoconazole is given concentrating with respiratory, the engineer does not be reduced to use-half of its normal done. Other strong inhabitors of CYP3A4 (incompanie) would be expected to have annite effects and need similar done inhabitors, moderate einhabitors (argiferomycin, grapetine) juices have not been studied. When the CYP3A4 whither is withdrawn from the combination thorough, the argignstable does allocate be increased.

Consideration of a proportion of an account or incommentation of a 10 mg single dise of proportion with quanting (166 mg/say for 13 days, a patent whithout of CHPSOS, increased the AUC of exceptable by 112% but decreased the AUC of its active metabolin, dehydro-angioratolic by 35%. Ampricase does should be reduced to one-half of a normal does when quantine is given concentrately with angiorator industry of CHPSOS, such as fluxishine or parasition, except the fluxishine and should be obtained to these sensite effects and should be of to sentine of the proportion does should be reduced to the angiorator and the sensitive effects and should be of the sensitive effects and should be of the sensitive effects and should be of the sensitive effects and should be obtained to the sensitive effects and should be sensited to these sensitive and should be expected to the sensitive effects and should be obtained as the sensitive effects and should be expected to the effect of the effect

Carbanaspine and Other CPFAM Inducers: Coadministration of surfunctures (500 mg twee strip), a potent CPFAM Inducers: Coadministration of surfunctures (500 mg twee strip), a potent CPFAM Inducer; with adoptionals (301 mg/stay) insulted in an approximate 70% decrease in C<sub>ent</sub> and M<sub>2</sub>C values of both suppressed and its cover instability, despitation of the suppression of the surfunction of

on crimical resistance, when commissione is withdrawn from the combination because the amportable does should be reduced.

Patendial for ARILEPY to Affect Often Drugs's Arriphrantile in unfelled by a cause blessely important phermacolismic interactions with drugs, inetabelland by opticitization PASS engines, in an wire shades, it is mightly to 30 months yours of adopticable has no algoritizant effect on microbolism by CP/209 interactive drugsmits, CP/209 (earthrunt, CP/2019) (engines), warfaint, and CP/264 (electromethorphism substitutes.

Adoptionally, importation and optimized ode not of these optimization for affecting CP/PAS-mediated metabolism or writer for effect of an open does not be pharmacolamotics of lithium or valorable.

Alcohol: There was no significant difference between anaparassile coopmissioned with efficient and packets coopmissioned with efficient and packets coopmissioned of group motor picts or attribute response in healthy subjects. As with most psychiacthive medications, patients should be activated to ayout accord white bases Assign and any according to the property of the property of the bases of the property of th

Drugs Naving No Clinically important Interactions with ABELET - Famotidine: Coodministration of anjopractin given in a single stone of 15 mg; with a 40 mg single dose of the H<sub>1</sub> antisposite famotidine, a potent quadric used blocker, decreased the unbasility of unspiceosis sand, helps for a state of absorption, reducing by 37% and 27% the Toppicanies and dishpoto unspiguously, respectively, and by 15% and 15%, the proposition of an importance for any experience for committed with the toppical value proposition of the pro

The transport of the control of the properties of the control of the properties of the control o

Lamothigine: Coadministration of 10 mg/day to 50 mg/day unit doses of arapprassile for 14 days to patients with Boolar I Disorder had no effect on the steady-state pharmacokoetics of 100 mg/day to 400 mg/day lamothigine, a LDP-glacomonoyfrombrese 1A4 substrate. No dosage adjustment of lamothigine is required when arapproprie is added to lamothigine.

Destromethorphan: Arportative of dozes of 10 mg/day to 30 mg/day for 14 days had no effect on destromethorphans. O descriptulars to the major methodate, destrorphan, a pathway dependent on CRYZDG activity. Aregonately also had no effect on destromethorphan's N-demethylation to the methodate 3-methorphany participations, a pull-way dependent on CRYZDA activity. No dossign adjustment of destromethorphan is insuant with an adjunctioned concombitative with interestration.

Warfarin: Apopropie 15 inguisty for 14 days had in effect on the pharmacelenetics of 8 worfarin and 5 worfarin or on the pharmacelenatics and point of international Normalized Ratio, indicating the lack of a directly relevant effect of approach on CPP2C9 and CPP2C9 metabolism or the bioding of highly protein doubt worfarin. No design adjustment of worfarin is required when administrated concomitantly with programme. Of megrapole: Apoproach is only the 15 days had no effect on the pharmacelenismic or in a single 20 mg doue of overgrapole; adjustable. All programme is discussed on effect on the pharmacelenismic of a single 20 mg doue of overgrapole. Or in PP2C19 adjustable. All industry adjusts is industry adjusts in the Milly adjusts. No dawage adjustment of comprising is majorely when obministered concomitantly with approaches.

Lexampson: Culchrimitation of forumpson rejection (2 mg) and anjopransis rejection (15 mg) to healthy subjects in-40, 25 males and 5 females, ages 19-45 years old) did not result in clinically important changes in the pharmacokinetics of either drug. No discage algorithm of anyopransis in elegated when administered coccompantly with conceptant, belower-15 or effective of great per discage and anyopransis agreed with an companied to that observed with proporation agree and the officialistic hypothesion observed was greater with the combination as companed to that observed with proposation above and in Procudence.

Eschalogrant: Commission of 10 inglosy onal osses of argonizate for 14 days to healthy subjects had no effect on the shealy-state pharmocolentrics of of 10 inglosy exchalogram, a substrate of CYP2CF9 and CYP2A4. No disage adjustment of exchalogram is required when amountains is added to exchalogram in required when

Ventratine: Continue to the migraty to 20 mg/day or all does of argonomie for 14 days to healthy subjects had no effect on the strategy-state characteristics of ventratine and 0-describity-less based to rendratine or mg/day ventratine XA, a CMPOR substate. No docage adjustment of ventratine is required when ariginance is added to rendratine.

Flooratine, Perrovatine, and Sertialine. A population pharmacolousite analysis in patients with Major Depressive Disorder showed no submitted change in plasma concentrations of Majoritan (40 mg/day), parasitive ER 625 is mg/day or 50 mg/day (in sentialize 160 mg/day) or 50 mg/day (in sentialize 160 mg/day) or 50 mg/day (in sentialize 160 mg/day), parasitive ER 625 mg/day), for sentialize 160 mg/day or 50 mg/day (in sentialize 160 mg/day), parasitive 260 mg/day or 50 mg/day) (in sentialize 160 mg/day), parasitive 260 mg/day), parasitive 260 mg/day (in sentialized), parasitive 260 mg/day (in sentializ

USE IN SPECIFIC POPULATIONS: in general, so discage advantment for ARILFY (argonizable) is required on the basic of a patient's ege, gender, roce, unixing status, hepatic function, or renal function (see Dosage and Administration (2.5) in Full Prescribing Information).

Pregnancy Category C. There are no adrequate and well-controlled studies in progrant women. Adoptractic should be used during uniquency only if the potential henefit autweights the potential risk to the fetus. In primal studies, and practic demonstrated developmental traceity, workeling propuble total openic effects in rate and nabbles.

Labor and Delivery - The effect of arpsprazole on labor and delivery in humans is unlessed

Nursing Mothers - Arophratise was exceeded in milk of cata during lactation, it is not known whether arripgraphie or its metabolites are exceeded in human milk, it is recommended that women receiving proporable should not breast head.

Pediatric Dise - Salirty and effectivement in periodnic potents with Major Depressive Disorder has not been established. The efficacy of adjanctive ARLFY with concernitural library or adjunctive in the treatment of manic or mixed episodes in pediatric patients has not been systematically evaluated, however, such efficacy and lack of paramacished enfanction between adoptances and filtium or adjunctive solutions of amountain and data, along with comparisons of approximate plantanescheric parameters in adult and pediatric patients. Gentatric Dise - in formal single-done grammockinetic studies livets arappraisely given in a single dose of 15 ings, arappraisely exercises.

Gendarie Use - in formal single-one grammochinetic studies liveth arapprapie given in a single dose of 15 mg, amprapire dearance was. 20% lower in elden's LaCS seems subjects compared to younger adult subjects (18 to 64 system). Also, the pharmacokinetics of alloprapies after multiple doses in elderly patients appeared similar to that observed in young, healthy subjects. No change adjustment in recommended for elderly patients (see also Boxed Marrings and Allomings and Procountines).

easily parents per and outer with one anoprazole in clinical thats, 1973 (this) were a65 years still and 799 (this) were a75 years old. The majority (81%) of the 1973 patients were diagnosed with Dementa of the Alzhenne's type.

Plancho-controlled studies of one anoprazole in this Arbeitsee Disorder did not include sufficient numbers of subjects aced 65 and over

Planeto-controlled studies of onal amplysable in Major Depressive Disorder did not include sufficient numbers of subjects aged 65 and over 10 determine whether they respond differently from younger subjects.

Reports impairment - In a single-dose study (15 mg of artipicable) in subjects with salying degrees of liver circlass (Child-Pugh Classes A, II, and C), the AUC of arapprators, compared to healthy adjects, increased 31% in mid H, increased 8% in moderate H, and decreased 20% is severe H. None of these differences would require dose adjustment.

Gender - C..., and AUC of propriative and its active metabolite, delyctro-propriative, are 30% to 40% higher in econes than in men, and contractionality, the apparent shall chearance of anypicative is laber to workers. These differences, however, are largely explained by offerences in body weight (20%) between term and women. But cleanly adjustment is in commerciate based on gender.

Race - Athough no specific pharmacokinetic study was conducted to investigate the ethicis of race on the disposition of anapocacie, population pharmacokinetic evaluation invested no evidence of clinically significant race-entated differences in the pharmacokinetics of amportation. No dissage adjustment is encorrenamed based on race

Smoking - Based on studies utilizing human liver enzymes in whit, adippracels is not a substrate for CPPAE and also does not undergo direct glocumorations. Smoking should, therefore, not have an effect on the pharmacokinetics of arisposacillo. Considered with these or with results, population sharmacokinetic evaluation side and invent any significant pharmacokinetic differences between proviers and consincients. No disappraductions in recurremented based in streaming status.

DRUG ABUSE AND DEPENDENCE - ABILIFY is not a controlled substance.

Abuse and Dependence: Amportative has not been systematically studied in humans for its potential for shuse, tolkrance, or physical dependence. While the clinical thats did not reveal any tendency for any daug-seeking behavior, it is not possible to predict on the book of this intend experience the extent to which a CNS-active drug will be insused, divinted, and/or abused once marketed. Patients should be evaluated carefully for a history of drug abuse and closely observed for signs of ABILEY missue or abuse.

OVERDOSACE: To case of obligation or accolarate very with one anapprapria above or in combination with other substances were reported workwide (44 cases with known outcome, 33 recovered without sequelar and one recovered with sequelar (mystess) and feeling absorbast). Auditionally, 10 of these cases were in children logs 12 and younger) involving one integration ingestions up to 156 mg with our stablists. The largest known acute ingestion was 1000 mg of one integration to 165 times on the product of 156 times in a patient who failly recovered. Common adverse reactions (reported in at feet 5% of all overdoos cases) were varieting, assemblence, and tremo. For more information on symptoms of overdoos, see faill Prescribing Information.

Management of Overdooge: No sporile information is evaluate on the treatment of overdoor with arbiphable. An electrocardogram should be obtained in case of overdoorpin and if of internal protongation is present, cardiac monitoring should be installed. Otherwise should be installed. Otherwise should concentrate an augportive therapy, maniforming an adequate anxiety, expension and verification; and management of symptoms. Quite medical supervisors and monitoring should continue until the patient incovers. Character in the contraction of a symptoms. Character in the contraction per be substituted in the patient incovers. Character in the contraction of any other and in the contraction of any other and in the contraction of any other and in the contraction of the patient should be an appropriate by 51%. Administration of 50 g of authorities (and character) on the effect of hemodologies in the state of the contraction of the patient of the contraction of the patient of th

PATIENT COUNSELING INFORMATION: Physicians are advised to discuss the following issues with patients for whom they prescribe ABILIPY: [See Medication Guide in Full Prescribing Information.]

Increased Mortality in Ederly Patients with Dementia-Related Psychosis - Advise patients and campivers of increased risk of death [see Warnings and Precautions].

Chical Worsening of Depression and Suicide Risk. - Aint families and compares of patients to monitor for the interpretor of agitation, similability, uniqual changes in behavior, suicidality, and other symptoms as described in Worsenings and Proceedings and to regort such symptoms immediately Advisor patients and their families and completes for read the Medication Guide and assist their in understanding its contribute for Worsening and Pressational.

Interference with Cognitive and Motor Performance - Biccases infojucación may have the potential to imper judgment, thinking, or injustrials, patients should be cautioned about operating hizandous mychinery, including automobiles, until they are reasonably certain that amprimose thereby does not affect them adversely like Womings and Precaudosof.

Pregrancy - Palents should be advised to eathy their physician if they become pregrant or intend to become pregrant during therapy with ARE/PY (see Lite in Specific Repolations).

Nursing - Patients should be advised not to breast-feed an infant if they are taking ARIL PY June (for in Specific Populations)

Concomitant Medication - Patients should be advised to inform their physicians if they are taking, or plan to take, any precurption or over the counter strugt, since there is a potential for interactional jues (Englishmactions).

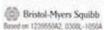
Aborbal - Patients should be advised to avoid alcohol while taking ABILIFY [see Drug interactions].

Heat Exposure and Dehydration - Patients should be advised regarding appropriate care in availing overheating and dehydration (see Mannos and Precautious).

Sugar Content - Patients should be advised that each mit, of ABILEY Oral Solution contains 470 mg of sucrose and 200 mg of functions.

Phonyliketowarder - Phonyliketow is a component of apparatus Each ABILEY DOCAMET Grafly Deintegrating Tablet contains the following amounts: 10 mg - 1.12 mg promyliketowarders and 15 mg - 1.68 mg polenyliketoward.

Tablets manufactured by Obsike Phormocrotical Co. Ltd. Tokyo. 101-8535 Japan or British-Myers Squibb Company, Princeton, NJ 10545 USA. Only Disonlegating Tablets, Oral Soution, and Injection manufactured by Briston-Myers Squibb Company, Princeton, NJ 19543 USA. Distributed and manufactured by Oracida Annice Princeton, NJ 10545 USA. Manufact by Briston-Myers Squibb Company, Princeton, NJ 10545 USA. Manufact by Briston-Myers Squibb Company, Princeton, NJ 10545 USA. Manufact by Briston-Myers Squibb Company, Princeton, NJ 10545 USA. Manufact by Briston-Myers Squibb Company.



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# SEROQUEL is the only mood-stabilizing atypical approved to control the depressive symptoms of bipolar disorder<sup>1,2</sup>



#### **Important Safety Information for SEROQUEL**

- SEROQUEL is indicated for the treatment of depressive episodes in bipolar disorder; acute manic episodes in bipolar I disorder, as either monotherapy or adjunct therapy to lithium or divalproex; for the maintenance treatment of bipolar I disorder as adjunct therapy to lithium or divalproex; and schizophrenia. Patients should be periodically reassessed to determine the need for continued treatment and the appropriate dose
- Elderly patients with dementia-related psychosis treated with atypical antipsychotic drugs are at an increased risk (1.6 to 1.7 times) of death, compared to placebo (4.5% vs 2.6%, respectively). SEROQUEL is not approved for the treatment of patients with dementia-related psychosis (See Boxed Warning)
- Antidepressants increased the risk of suicidal thinking and behavior in children, adolescents, and young adults in short-term studies of major depressive disorder and other psychiatric disorders. Patients of all ages started on therapy should be observed closely for clinical worsening, suicidality, or unusual changes in behavior. Families and caregivers should be advised of the need for close observation and communication with the prescriber. SEROQUEL is not approved for use in patients under the age of 18 years (See Boxed Warning)

For bipolar disorder



# SEROQUEL is the only mood-stabilizing atypical approved to control the depressive symptoms of bipolar disorder<sup>1,2</sup>

- SEROQUEL is approved for both the acute and maintenance treatment of bipolar depression\*1
- SEROQUEL stabilizes mood in both acute mania and bipolar depression<sup>1</sup>
- As adjunct therapy, SEROQUEL helps maintain remission of depressive symptoms\*3

#### Important Safety Information for SEROQUEL, continued

- Hyperglycemia, in some cases extreme and associated with ketoacidosis, hyperosmolar coma, or death, has been reported in patients
  treated with atypical antipsychotics, including SEROQUEL. The relationship of atypical use and glucose abnormalities is complicated by the
  possibility of increased risk of diabetes in the schizophrenic population and the increasing incidence of diabetes in the general population.
  However, epidemiological studies suggest an increased risk of treatment-emergent, hyperglycemia-related adverse reactions in patients
  treated with atypical antipsychotics. Patients starting treatment with atypical antipsychotics who have or are at risk for diabetes should
  undergo fasting blood glucose testing at the beginning of and periodically during treatment. Patients who develop symptoms of
  hyperglycemia should also undergo fasting blood glucose testing
- A potentially fatal symptom complex, sometimes referred to as Neuroleptic Malignant Syndrome (NMS), has been reported in association
  with administration of antipsychotic drugs, including SEROQUEL. Rare cases of NMS have been reported with SEROQUEL. Clinical
  manifestations of NMS are hyperpyrexia, muscle rigidity, altered mental status, and evidence of autonomic instability (irregular pulse or
  blood pressure, tachycardia, diaphoresis, and cardiac dysrhythmia). Additional signs may include elevated creatine phosphokinase,
  myoglobinuria (rhabdomyolysis), and acute renal failure. The management of NMS should include immediate discontinuation of
  antipsychotic drugs
- Leukopenia, neutropenia, and agranulocytosis (including fatal cases), have been reported temporally related to atypical antipsychotics, including SEROQUEL. Patients with a pre-existing low white blood cell (WBC) count or a history of drug induced leukopenia/neutropenia should have their complete blood count monitored frequently during the first few months of therapy. In these patients, SEROQUEL should be discontinued at the first sign of a decline in WBC absent other causative factors. Patients with neutropenia should be carefully monitored, and SEROQUEL should be discontinued in any patient if the absolute neutrophil count is < 1000/mm<sup>3</sup>
- Tardive dyskinesia (TD), a potentially irreversible syndrome of involuntary dyskinetic movements, may develop in patients treated with
  antipsychotic drugs. The risk of developing TD and the likelihood that it will become irreversible are believed to increase as the duration of
  treatment and total cumulative dose of antipsychotic drugs administered to the patient increase. TD may remit, partially or completely, if
  antipsychotic treatment is withdrawn. SEROQUEL should be prescribed in a manner that is most likely to minimize the occurrence of TD

<sup>\*</sup>Maintenance therapy as adjunct to lithium or divalproex.



#### Important Safety Information for SEROQUEL, continued

- Warnings and Precautions also include the risk of orthostatic hypotension, cataracts, seizures, hyperlipidemia, and possibility of suicide attempts. Examination of the lens by methods adequate to detect cataract formation, such as slit lamp exam or other appropriately sensitive methods, is recommended at initiation of treatment or shortly thereafter, and at 6-month intervals during chronic treatment. The possibility of a suicide attempt is inherent in schizophrenia, and close supervision of high risk patients should accompany drug therapy
- The most commonly observed adverse reactions associated with the use of SEROQUEL versus placebo in clinical trials for schizophrenia and bipolar disorder were dry mouth (9%-44% vs 3%-13%), sedation (30% vs 8%), somnolence (18%-34% vs 7%-9%), dizziness (9%-18% vs 5%-7%), constipation (8%-10% vs 3%-5%), asthenia (5%-10% vs 3%-4%), abdominal pain (4%-7% vs 1%-3%), postural hypotension (4%-7% vs 1%-2%), pharyngitis (4%-6% vs 3%), weight gain (5%-6% vs 1%-3%), lethargy (5% vs 2%), nasal congestion (5% vs 3%), SGPT increased (5% vs 1%), and dyspepsia (5%-7% vs 1%-4%)
- In long-term clinical trials of quetiapine, hyperglycemia (fasting glucose ≥ 126 mg/dL) was observed in 10.7% of patients receiving quetiapine (mean exposure 213 days) vs 4.6% in patients receiving placebo (mean exposure 152 days)

For bipolar disorder

References: 1. SEROQUEL Prescribing Information.
2. Data on file, DA-SER-51, AstraZeneca Pharmaceuticals LP.
3. Data on file, 263170, AstraZeneca Pharmaceuticals LP.

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#### **SEROQUEL**

(quetiapine fumarate)

**TABLETS** 

**RX ONLY** 

**BRIEF SUMMARY:** For full Prescribing Information, see package insert.

### WARNING: INCREASED MORTALITY IN ELDERLY PATIENTS WITH DEMENTIA-RELATED PSYCHOSIS

Elderly patients with dementia-related psychosis treated with atypical antipsychotic drugs are at an increased risk of death compared to placebo. Analyses of seventeen placebo-controlled trials (modal duration of 10 weeks) in these patients revealed a risk of death in the drug-treated patients of between 1.6 to 1.7 times that seen in placebo-treated patients. Over the course of a typical 10-week controlled trial, the rate of death in drug-treated patients was about 4.5%, compared to arate of about 2.6% in the placebo group. Although the causes of death were varied, most of the deaths appeared to be either cardiovascular (eg, heart failure, sudden death) or infectious (eg, pneumonia) in nature. SEROQUEL (quetiapine) is not approved for the treatment of patients with Dementia-Related Psychosis.

#### SUICIDALITY AND ANTIDEPRESSANT DRUGS

Antidepressants increased the risk compared to placebo of suicidal thinking and behavior (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 SEROQUEL 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 compared to placebo in adults beyond age 24; there was a reduction in risk with antidepressants compared to placebo in adults aged 65 and older. Depression and certain other psychiatric disorders are themselves associated with increases in the risk of suicide. Patients of all ages who are started on antidepressant therapy should be monitored appropriately and observed closely for clinical worsening, suicidality, or unusual changes in behavior. Families and caregivers should be advised of the need for close observation and communication with the prescriber. SEROQUEL is not approved for use in pediatric patients (see Warnings and Precautions).

#### INDICATIONS AND USAGE

Bipolar Disorder SEROQUEL is indicated for the: • treatment of depressive episodes associated with bipolar disorder; • treatment of acute manic episodes associated with bipolar I disorder as either monotherapy or adjunct therapy to lithium or divalproex; and • maintenance treatment of bipolar I disorder as adjunct therapy to lithium or divalproex. **Depression** The efficacy of SEROQUEL was established in two identical 8-week randomized, placebo-controlled double-blind clinical studies that included either bipolar I or II patients [see Clinical Pharmacology in full Prescribing Information (12)]. Effectiveness has not been systematically evaluated in clinical trials for more than 8 weeks. *Mania* The efficacy of SEROQUEL in acute bipolar mania was established in two 12-week monotherapy trials and one 3-week adjunct therapy trial of bipolar I patients initially hospitalized for up to 7 days for acute mania [see Clinical Pharmacology in full Prescribing Information (12)]. Effectiveness has not been systematically evaluated in clinical trials for more than 12 weeks in monotherapy. Maintenance Treatment in Bipolar Disorder The efficacy of SEROQUEL as adjunct maintenance therapy to lithium or divalproex was established in 2 identical randomized placebocontrolled double-blind studies in patients with Bipolar I Disorder [see Clinical Studies in full Prescribing Information (14)]. The physician who elects to use SEROQUEL for extended periods in Bipolar Disorder should periodically re-evaluate the long-term risks and benefits of the drug for the individual patient (see Dosage and Administration). Schizophrenia SEROQUEL is indicated for the treatment of schizophrenia. The efficacy of SEROQUEL in schizophrenia was established in short-term (6-week) controlled trials of schizophrenic inpatients [see Clinical Pharmacology in full Prescribing Information (12)]. The effectiveness of SEROQUEL in long-term use, that is, for more than 6 weeks, has not been systematically evaluated in controlled trials. Therefore, the physician who elects to use SEROQUEL for extended periods should periodically re-evaluate the long-term usefulness of the drug for the individual patient (see Dosage and Administration)

#### DOSAGE AND ADMINISTRATION

**Bipolar Disorder** *Depression Usual Dose*: SEROQUEL should be administered once daily at bedtime to reach 300 mg/day by day 4.

#### Recommended Dosing Schedule

Day	Day 1	Day 2	Day 3	Day 4
SEROQUEL	50 ma	100 ma	200 ma	300 mg

In these clinical trials supporting effectiveness, the dosing schedule was 50 mg, 100 mg, 200 mg and 300 mg/day for days 1-4 respectively. Patients receiving 600 mg increased to 400 mg on day 5 and 600 mg on day 8 (Week 1). Antidepressant efficacy was demonstrated with SEROQUEL at both 300 mg and 600 mg however, no additional benefit was seen in the 600 mg group. *Mania Usual Dose:* When used as monotherapy or adjunct therapy (with lithium or divalproex), SEROQUEL should be initiated in bid doses totaling 100 mg/day on Day 1, increased to 400 mg/day on Day 4 in increments of up to 100 mg/day in bid divided doses. Further dosage adjustments up to 800 mg/day by Day 6 should be in increments of no greater than 200 mg/day. Data indicate that the majority of patients responded between 400 to 800 mg/day. The safety of doses above 800 mg/day has not been evaluated in clinical trials. *Maintenance* Maintenance of efficacy in Bipolar I Disorder was demonstrated with SEROQUEL (administered twice daily totalling 400 to 800 mg per day) as adjunct therapy to lithium or divalproex. Generally, in the maintenance phase, patients continued on the same dose on which they were stabilized during the stabilization phase [see Clinical Studies in full Prescribing Information (14)]. Schizophrenia Usual Dose: SEROQUEL should generally be administered with an initial dose of 25 mg bid, with increases in increments of 25-50 mg bid or tid on the second and third day, as tolerated, to a target dose range of 300 to 400 mg daily by the fourth day, given bid

or tid. Further dosage adjustments, if indicated, should generally occur at intervals of not less than 2 days, as steady-state for SEROQUEL would not be achieved for approximately 1-2 days in the typical patient. When dosage adjustments are necessary, dose increments/decrements of 25-50 mg bid are recommended. Most efficacy data with SEROQUEL were obtained using tid regimens, but in one controlled trial 225 mg twice per day was also effective. Efficacy in schizophrenia was demonstrated in a dose range of 150 to 750 mg/day in the clinical trials supporting the effectiveness of SEROQUEL. In a dose response study, doses above 300 mg/day were not demonstrated to be more efficacious than the 300 mg/day dose. In other studies, however, doses in the range of 400-500 mg/day appeared to be needed. The safety of doses above 800 mg/day has not been evaluated in clinical trials. Dosing in Special Populations Consideration should be given to a slower rate of dose titration and a lower target dose in the elderly and in patients who are debilitated or who have a predisposition to hypotensive reactions [see Clinical Pharmacology in full Prescribing Information (12)]. When indicated, dose escalation should be performed with caution in these patients. Patients with hepatic impairment should be started on 25 mg/day. The dose should be increased daily in increments of 25-50 mg/day to an effective dose, depending on the clinical response and tolerability of the patient. The elimination of quetiapine was enhanced in the presence of phenytoin. Higher maintenance doses of quetiapine may be required when it is coadministered with phenytoin and other enzyme inducers such as carbamazepine and phenobarbital (see Drug Interactions). Maintenance Treatment While there is no body of evidence available to answer the question of how long the patient treated with SEROQUEL should be maintained, it is generally recommended that responding patients be continued beyond the acute response, but at the lowest dose needed to maintain remission. Patients should be periodically reassessed to determine the need for maintenance treatment. Reinitiation of Treatment in Patients Previously **Discontinued** Although there are no data to specifically address reinitiation of treatment, it is recommended that when restarting patients who have had an interval of less than one week off SEROQUEL, titration of SEROQUEL is not required and the maintenance dose may be reinitiated. When restarting therapy of patients who have been off SEROQUEL for more than one week, the initial titration schedule should be followed. Switching from Antipsychotics There are no systematically collected data to specifically address switching patients with schizophrenia from antipsychotics to SEROQUEL, or concerning concomitant administration with antipsychotics. While immediate discontinuation of the previous antipsychotic treatment may be acceptable for some patients with schizophrenia, more gradual discontinuation may be most appropriate for others. In all cases, the period of overlapping antipsychotic administration should be minimized. When switching patients with schizophrenia from depot antipsychotics, if medically appropriate, initiate SEROQUEL therapy in place of the next scheduled injection. The need for continuing existing EPS

#### **CONTRAINDICATIONS**

None known

#### WARNINGS AND PRECAUTIONS

medication should be reevaluated periodically.

Increased Mortality in Elderly Patients with Dementia-Related Psychosis Elderly patients with dementia-related psychosis treated with atypical antipsychotic drugs are at an increased risk of death compared to placebo. SEROQUEL (quetiapine fumarate) is not approved for the treatment of patients with dementia-related psychosis (see Boxed Warning). 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 themselves 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 in certain patients during the early phases of treatment. Pooled analyses of short-term placebocontrolled trials of antidepressant drugs (SSRIs and others) showed that these drugs increase the risk of suicidal thinking and behavior (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 placebo in adults aged 65 and older. The pooled analyses of placebo-controlled trials in children and adolescents with MDD, obsessive compulsive disorder (OCD), or other psychiatric disorders included a total of 24 short-term trials of 9 antidepressant drugs in over 4400 patients. The pooled analyses of placebo-controlled trials in adults with MDD or other psychiatric disorders included a total of 295 short-term trials (median duration of 2 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 of suicidality across the different indications, with the highest incidence in MDD. The risk differences (drug vs. placebo), however, were relatively stable within age strata and across indications. These risk differences (drug-placebo difference in the number of cases of suicidality per 1000 patients treated) are provided in Table 1.

Table 1

Age Range	Drug-Placebo Difference in Number of Cases of Suicidality per 1000 Patients Treated
	Increases Compared to Placebo
<18	14 additional cases
18-24	5 additional cases
	Decreases Compared to Placebo
25-64	1 fewer case
≥65	6 fewer cases

No suicides occurred in any of the pediatric trials. There were suicides in the adult trials, but the number was not sufficient to reach any conclusion about drug effect on suicide. It is unknown whether the suicidality risk extends to longer-term use, i.e., beyond several months. However, there is substantial evidence from placebo-controlled maintenance trials 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, anxiety, agitation, panic attacks, insomnia, irritability, hostility, aggressiveness, impulsivity, akathisia (psychomotor restlessness), hypomania, 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 nonpsychiatric. 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 given to changing the therapeutic regimen, including possibly discontinuing the medication, in patients whose depression is persistently worse, or who are experiencing emergent suicidality or symptoms that might be precursors to worsening depression or suicidality, especially if these symptoms are severe, abrupt in onset, or were not part of the patient's presenting symptoms. Families and caregivers of patients being treated with antidepressants for major depressive disorder or other indications, both psychiatric and nonpsychiatric, should be alerted about the need to monitor patients for the emergence of agitation, irritability, unusual changes in behavior, and the other symptoms described above, as well as the emergence of suicidality, and to report such symptoms immediately to health care providers. Such monitoring should include daily observation by families and caregivers. Prescriptions for SEROQUEL should be written for the smallest quantity of tablets consistent with good patient management, in order to reduce the risk of overdose. **Screening Patients for Bipolar Disorder:** A major depressive episode may be the initial presentation of bipolar disorder. It is generally believed (though not established in controlled trials) that treating such an episode with an antidepressant alone may increase the likelihood of precipitation of a mixed/manic episode in patients at risk for bipolar disorder. Whether any of the symptoms described above represent such a conversion is unknown. However, prior to initiating treatment with an antidepressant, patients with depressive symptoms should be adequately screened to determine if they are at risk for bipolar disorder; such screening should include a detailed psychiatric history, including a family history of suicide, bipolar disorder, and depression. It should be noted that SEROQUEL is approved for use in treating adult bipolar depression. Hyperglycemia and Diabetes Mellitus Hyperglycemia, in some cases extreme and associated with ketoacidosis or hyperosmolar coma or death, has been reported in patients treated with atypical antipsychotics, including quetiapine (see Adverse Reactions, Hyperglycemia). Assessment of the relationship between atypical antipsychotic use and glucose abnormalities is complicated by the possibility of an increased background risk of diabetes mellitus in patients with schizophrenia and the increasing incidence of diabetes mellitus in the general population. Given these confounders, the relationship between atypical antipsychotic use and hyperglycemia-related adverse reactions is not completely understood. However, epidemiological studies suggest an increased risk of treatment-emergent hyperglycemia-related adverse reactions in patients treated with the atypical antipsychotics. Precise risk estimates for hyperglycemia-related adverse reactions in patients treated with atypical antipsychotics are not available. Patients with an established diagnosis of diabetes mellitus who are started on atypical antipsychotics should be monitored regularly for worsening of glucose control. Patients with risk factors for diabetes mellitus (eg. obesity, family history of diabetes) who are starting treatment with atypical antipsychotics should undergo fasting blood glucose testing at the beginning of treatment and periodically during treatment. Any patient treated with atypical antipsychotics should be monitored for symptoms of hyperglycemia including polydipsia, polyuria, polyphagia, and weakness. Patients who develop symptoms of hyperglycemia during treatment with atypical antipsychotics should undergo fasting blood glucose testing. In some cases, hyperglycemia has resolved when the atypical antipsychotic was discontinued; however, some patients required continuation of anti-diabetic treatment despite discontinuation of the suspect drug. Neuroleptic Malignant Syndrome (NMS) A potentially fatal symptom complex sometimes referred to as Neuroleptic Malignant Syndrome (NMS) has been reported in association with administration of antipsychotic drugs, including SEROQUEL. Rare cases of NMS have been reported with SEROQUEL. Clinical manifestations of NMS are hyperpyrexia, muscle rigidity, altered mental status, and evidence of autonomic instability (irregular pulse or blood pressure, tachycardia, diaphoresis, and cardiac dysrhythmia). Additional signs may include elevated creatine phosphokinase, myoglobinuria (rhabdomyolysis) and acute renal failure. The diagnostic evaluation of patients with this syndrome is complicated. In arriving at a diagnosis, it is important to exclude cases where the clinical presentation includes both serious medical illness (e.g., pneumonia, systemic infection, etc.) and untreated or inadequately treated extrapyramidal signs and symptoms (EPS). Other important considerations in the differential diagnosis include central anticholinergic toxicity, heat stroke, drug fever and primary central nervous system (CNS) pathology. The management of NMS should include: 1) immediate discontinuation of antipsychotic drugs and other drugs not essential to concurrent therapy; 2) intensive symptomatic treatment and medical monitoring; and 3) treatment of any concomitant serious medical problems for which specific treatments are available. There is no general agreement about specific pharmacological treatment regimens for NMS. If a patient requires antipsychotic drug treatment after recovery from NMS, the potential reintroduction of drug therapy should be carefully considered. The patient should be carefully monitored since recurrences of NMS have been reported. Orthostatic Hypotension SEROQUEL may induce orthostatic hypotension associated with dizziness, tachycardia and, in some patients, syncope, especially during the initial dose-titration period, probably reflecting its  $\alpha_1$ -adrenergic antagonist properties. Syncope was reported in 1% (28/3265) of the patients treated with SEROQUEL, compared with 0.2% (2/954) on placebo and about 0.4% (2/527) on active control drugs. SEROQUEL should be used with particular caution in patients with known cardiovascular disease (history of myocardial infarction or ischemic heart disease, heart failure or conduction abnormalities), cerebrovascular disease or conditions which would predispose patients to hypotension (dehydration, hypovolemia and treatment with antihypertensive medications). The risk of orthostatic hypotension and syncope may be minimized by limiting the initial dose to 25 mg bid (see **Dosage and Administration**). If hypotension occurs during titration to the target dose, a return to the previous dose in the titration schedule is appropriate. **Leukopenia**, **Neutropenia** and **Agranulocytosis** In clinical trial and postmarketing experience, events of leukopenia/neutropenia have been reported temporally related to atypical antipsychotic agents, including SEROQUEL. Agranulocytosis (including fatal cases) has also been reported. Possible risk factors for leukopenia/neutropenia include pre-existing low white cell count (WBC) and history of drug induced leukopenia/neutropenia. Patients with a pre-existing low WBC or a history of drug induced leukopenia/ neutropenia should have their complete blood count (CBC) monitored frequently during the first few months of therapy and should discontinue SEROQUEL at the first sign of a decline in WBC in absence of other

signs of infection and treated promptly if such symptoms or signs occur. Patients with severe neutropenia (absolute neutrophil count <1000/mm<sup>3</sup>) should discontinue SEROQUEL and have their WBC followed until recovery (see Adverse Reactions). Tardive Dyskinesia A syndrome of potentially irreversible, involuntary, dyskinetic movements may develop in patients treated with antipsychotic drugs. Although the prevalence of the syndrome appears to be highest among the elderly, especially elderly women, it is impossible to rely upon prevalence estimates to predict, at the inception of antipsychotic treatment, which patients are likely to develop the syndrome. Whether antipsychotic drug products differ in their potential to cause tardive dyskinesia is unknown. The risk of developing tardive dyskinesia and the likelihood that it will become irreversible are believed to increase as the duration of treatment and the total cumulative dose of antipsychotic drugs administered to the patient increase. However, the syndrome can develop, although much less commonly, after relatively brief treatment periods at low doses. There is no known treatment for established cases of tardive dyskinesia, although the syndrome may remit, partially or completely, if antipsychotic treatment is withdrawn. Antipsychotic treatment, itself, however, may suppress (or partially suppress) the signs and symptoms of the syndrome and thereby may possibly mask the underlying process. The effect that symptomatic suppression has upon the long-term course of the syndrome is unknown. Given these considerations, SEROQUEL should be prescribed in a manner that is most likely to minimize the occurrence of tardive dyskinesia. Chronic antipsychotic treatment should generally be reserved for patients who appear to suffer from a chronic illness that (1) is known to respond to antipsychotic drugs, and (2) for whom alternative, equally effective, but potentially less harmful treatments are not available or appropriate. In patients who do require chronic treatment, the smallest dose and the shortest duration of treatment producing a satisfactory clinical response should be sought. The need for continued treatment should be reassessed periodically. If signs and symptoms of tardive dyskinesia appear in a patient on SEROQUEL, drug discontinuation should be considered. However, some patients may require treatment with SEROQUEL despite the presence of the syndrome. Cataracts The development of cataracts was observed in association with quetiapine treatment in chronic dog studies [see Nonclinical Toxicology, Animal Toxicology in full Prescribing Information (13.2)]. Lens changes have also been observed in patients during long-term SEROQUEL treatment, but a causal relationship to SEROQUEL use has not been established. Nevertheless, the possibility of lenticular changes cannot be excluded at this time. Therefore, examination of the lens by methods adequate to detect cataract formation, such as slit lamp exam or other appropriately sensitive methods, is recommended at initiation of treatment or shortly thereafter, and at 6-month intervals during chronic treatment. Seizures During clinical trials, seizures occurred in 0.5% (20/3490) of patients treated with SEROQUEL compared to 0.2% (2/954) on placebo and 0.7% (4/527) on active control drugs. As with other antipsychotics, SEROQUEL should be used cautiously in patients with a history of seizures or with conditions that potentially lower the seizure threshold, eg, Alzheimer's dementia. Conditions that lower the seizure threshold may be more prevalent in a population of 65 years or older. Hypothyroidism Clinical trials with SEROQUEL demonstrated a dose-related decrease in total and free thyroxine (T4) of approximately 20% at the higher end of the therapeutic dose range and was maximal in the first two to four weeks of treatment and maintained without adaptation or progression during more chronic therapy. Generally, these changes were of no clinical significance and TSH was unchanged in most patients and levels of TBG were unchanged. In nearly all cases, cessation of SEROQUEL treatment was associated with a reversal of the effects on total and free T4, irrespective of the duration of treatment. About 0.7% (26/3489) of SEROQUEL patients did experience TSH increases in monotherapy studies. Six of the patients with TSH increases needed replacement thyroid treatment. In the mania adjunct studies, where SEROQUEL was added to lithium or divalproex, 12% (24/196) of SEROQUEL treated patients compared to 7% (15/203) of placebo treated patients had elevated TSH levels. Of the SEROQUEL treated patients with elevated TSH levels, 3 had simultaneous low free T4 levels. Hyperlipidemia In schizophrenia trials, the proportions of patients with elevations to levels of cholesterol ≥240 mg/dL and triglycerides ≥200 mg/dL were 16% and 23% for SEROQUEL treated patients respectively compared to 7% and 16% for placebo treated patients respectively. In bipolar depression trials, the proportion of patients with cholesterol and triglycerides elevations to these levels were 9% and 14% for SEROQUEL treated patients respectively, compared to 6% and 9% for placebo treated patients respectively. **Hyperprolactinemia** Although an elevation of prolactin levels was not demonstrated in clinical trials with SEROQUEL, increased prolactin levels were observed in rat studies with this compound, and were associated with an increase in mammary gland neoplasia in rats [see Carcinogenesis, Mutagenesis, Impairment of Fertility in full Prescribing Information (13.1)]. Tissue culture experiments indicate that approximately one-third of human breast cancers are prolactin dependent in vitro, a factor of potential importance if the prescription of these drugs is contemplated in a patient with previously detected breast cancer. Although disturbances such as galactorrhea, amenorrhea, gynecomastia, and impotence have been reported with prolactin-elevating compounds, the clinical significance of elevated serum prolactin levels is unknown for most patients. Neither clinical studies nor epidemiologic studies conducted to date have shown an association between chronic administration of this class of drugs and tumorigenesis in humans: the available evidence is considered too limited to be conclusive at this time. Transaminase Elevations Asymptomatic, transient and reversible elevations in serum transaminases (primarily ALT) have been reported. In schizophrenia trials, the proportions of patients with transaminase elevations of >3 times the upper limits of the normal reference range in a pool of 3- to 6-week placebocontrolled trials were approximately 6% for SEROQUEL compared to 1% for placebo. In acute bipolar mania trials, the proportions of patients with transaminase elevations of >3 times the upper limits of the normal reference range in a pool of 3- to 12-week placebo-controlled trials were approximately 1% for both SEROQUEL and placebo. These hepatic enzyme elevations usually occurred within the first 3 weeks of drug treatment and promptly returned to pre-study levels with ongoing treatment with SEROQUEL. In bipolar depression trials, the proportions of patients with transaminase elevations of >3 times the upper limits of the normal reference range in two 8-week placebo-controlled trials was 1% for SEROQUEL and 2% for placebo. Potential for Cognitive and Motor Impairment Somnolence was a commonly reported adverse event reported in patients treated with SEROQUEL especially during the 3-5 day period of initial dose titration. In schizophrenia trials, somnolence was reported in 18% of patients on SEROQUEL compared to 11% of placebo patients. In acute bipolar mania trials using SEROQUEL as monotherapy, somnolence was reported in 16% of patients on SEROQUEL compared to 4% of placebo patients. In acute bipolar mania trials using SEROQUEL as adjunct therapy, somnolence was reported in 34% of patients on SEROQUEL compared to 9% of placebo patients. In bipolar depression trials, somnolence was reported in 28% of patients on SEROQUEL compared to 7% of placebo patients. In these trials, sedation was reported in 30% of patients causative factors. Patients with neutropenia should be carefully monitored for fever or other symptoms or on SEROQUEL compared to 8% of placebo patients. Since SEROQUEL has the potential to impair judgment,

thinking, or motor skills, patients should be cautioned about performing activities requiring mental alertness, such as operating a motor vehicle (including automobiles) or operating hazardous machinery until they are reasonably certain that SEROQUEL therapy does not affect them adversely. Priapism One case of priapism in a patient receiving SEROQUEL has been reported prior to market introduction. While a causal relationship to use of SEROQUEL has not been established, other drugs with alpha-adrenergic blocking effects have been reported to induce priapism, and it is possible that SEROQUEL may share this capacity. Severe priapism may require surgical intervention. Body Temperature Regulation Although not reported with SEROQUEL, disruption of the body's ability to reduce core body temperature has been attributed to antipsychotic agents. Appropriate care is advised when prescribing SEROQUEL for patients who will be experiencing conditions which may contribute to an elevation in core body temperature, e.g., exercising strenuously, exposure to extreme heat, receiving concomitant medication with anticholinergic activity, or being subject to dehydration. Dysphagia Esophageal dysmotility and aspiration have been associated with antipsychotic drug use. Aspiration pneumonia is a common cause of morbidity and mortality in elderly patients, in particular those with advanced Alzheimer's dementia. SEROQUEL and other antipsychotic drugs should be used cautiously in patients at risk for aspiration pneumonia. Suicide The possibility of a suicide attempt is inherent in bipolar disorder and schizophrenia; close supervision of high risk patients should accompany drug therapy. Prescriptions for SEROQUEL should be written for the smallest quantity of tablets consistent with good patient management in order to reduce the risk of overdose. In 2 eight-week clinical studies in patients with bipolar depression (N=1048) the incidence of treatment emergent suicidal ideation or suicide attempt was low and similar to placebo (SEROQUEL 300 mg, 6/350, 1.7%; SEROQUEL 600 mg, 9/348, 2.6%; Placebo, 7/347, 2.0%). Use in Patients with Concomitant Illness Clinical experience with SEROQUEL in patients with certain concomitant systemic illnesses is limited [see **Pharmacokinetics** in full Prescribing Information (12.3)]. SEROQUEL has not been evaluated or used to any appreciable extent in patients with a recent history of myocardial infarction or unstable heart disease. Patients with these diagnoses were excluded from premarketing clinical studies. Because of the risk of orthostatic hypotension with SEROQUEL, caution should be observed in cardiac patients (see Warnings and Precautions). Withdrawal Acute withdrawal symptoms, such as nausea, vomiting, and insomnia have very rarely been described after abrupt cessation of atypical antipsychotic drugs, including SEROQUEL. Gradual withdrawal is advised.

#### **ADVERSE REACTIONS**

**Clinical Study Experience** Because clinical studies are conducted under widely varying conditions, adverse reaction rates observed in the clinical studies of a drug cannot be directly compared to rates in the clinical studies of another drug and may not reflect the rates observed in practice. The information below is derived from a clinical trial database for SEROQUEL consisting of over 4300 patients. This database includes 698 patients exposed to SEROQUEL for the treatment of bipolar depression, 405 patients exposed to SEROQUEL for the treatment of acute bipolar mania (monotherapy and adjunct therapy), 646 patients exposed to SEROQUEL for the maintenance treatment of bipolar I disorder as adjunct therapy, and approximately 2600 patients and/or normal subjects exposed to 1 or more doses of SEROQUEL for the treatment of schizophrenia. Of these approximately 4300 subjects, approximately 4000 (2300 in schizophrenia, 405 in acute bipolar mania, 698 in bipolar depression, and 646 for the maintenance treatment of bipolar I disorder) were patients who participated in multiple dose effectiveness trials, and their experience corresponded to approximately 2400 patient-years. The conditions and duration of treatment with SEROQUEL varied greatly and included (in overlapping categories) open-label and double-blind phases of studies, inpatients and outpatients, fixed-dose and dose-titration studies, and short-term or longer-term exposure. Adverse reactions were assessed by collecting adverse events, results of physical examinations, vital signs, weights, laboratory analyses, ECGs, and results of ophthalmologic examinations. Adverse reactions during exposure were obtained by general inquiry and recorded by clinical investigators using terminology of their own choosing. Consequently, it is not possible to provide a meaningful estimate of the proportion of individuals experiencing adverse reactions without first grouping similar types of reactions into a smaller number of standardized reaction categories. In the tables and tabulations that follow, standard COSTART terminology has been used to classify reported adverse reactions for schizophrenia and bipolar mania. MedDRA terminology has been used to classify reported adverse reactions for bipolar depression. The stated frequencies of adverse reactions represent the proportion of individuals who experienced, at least once, a treatment-emergent adverse reaction of the type listed. A reaction was considered treatment emergent if it occurred for the first time or worsened while receiving therapy following baseline evaluation.

Adverse Reactions Associated with Discontinuation of Treatment in Short-Term, Placebo-Controlled Trials: Bipolar Disorder: Depression: Overall, discontinuations due to adverse reactions were 12.3% for SEROQUEL 300 mg vs. 19.0% for SEROQUEL 600 mg and 5.2% for placebo. Mania: Overall, discontinuations due to adverse reactions were 5.7% for SEROQUEL vs. 5.1% for placebo in monotherapy and 3.6% for SEROQUEL vs. 5.9% for placebo in adjunct therapy. Schizophrenia: Overall, there was little difference in the incidence of discontinuation due to adverse reactions (4% for SEROQUEL vs. 3% for placebo) in a pool of controlled trials. However, discontinuations due to somnolence and hypotension were considered to be drug related (see Warnings and Precautions).

Adverse Reaction	SEROQUEL	Placebo
Somnolence	0.8%	0%
Hypotension	0.4%	0%

Adverse Reactions Occurring at an Incidence of 1% or More Among SEROQUEL Treated Patients in Short-Term, Placebo-Controlled Trials: The prescriber should be aware that the figures in the tables and tabulations cannot be used to predict the incidence of side effects in the course of usual medical practice where patient characteristics and other factors differ from those that prevailed in the clinical trials. Similarly, the cited frequencies cannot be compared with figures obtained from other clinical investigations involving different treatments, uses, and investigators. The cited figures, however, do provide the prescribing physician with some basis for estimating the relative contribution of drug and nondrug factors to the side effect incidence in the population studied. Table 2 enumerates the incidence, rounded to the nearest percent, of treatment-emergent adverse reactions that occurred during acute therapy of schizophrenia (up to 6 weeks) and bipolar mania (up to 12 weeks) in 1% or more of patients treated with SEROQUEL (doses ranging from 75 to 800 mg/day) where the incidence in patients treated with SEROQUEL was greater than the incidence in placebo-treated patients.

Table 2. Treatment-Emergent Adverse Reaction Incidence in 3- to 12-Week Placebo-Controlled Clinical Trials for the Treatment of Schizophrenia and Bipolar Mania (monotherapy)<sup>1</sup>

Body System/Preferred Term	SEROQUEL (n=719)	PLACEBO (n=404)
Body as a Whole	(11=113)	(11=404)
Headache	21%	14%
Pain	7%	5%
Asthenia	5%	3%
Abdominal Pain	4%	1%
Back Pain	3%	1%
Fever	2%	1%
Cardiovascular	270	.,,
Tachycardia	6%	4%
Postural Hypotension	4%	1%
Digestive		. 70
Dry Mouth	9%	3%
Constipation	8%	3%
Vomiting	6%	5%
Dyspepsia	5%	1%
Gastroenteritis	2%	0%
Gamma Glutamyl Transpeptidase Increased	1%	0%
Metabolic and Nutritional		
Weight Gain	5%	1%
SGPT Increased	5%	1%
SGOT Increased	3%	1%
Nervous		
Agitation	20%	17%
Somnolence	18%	8%
Dizziness	11%	5%
Anxiety	4%	3%
Respiratory		
Pharyngitis	4%	3%
Rhinitis	3%	1%
Skin and Appendages		
Rash	4%	2%
Special Senses		
Amblyopia	2%	1%

Reactions for which the SEROQUEL incidence was equal to or less than placebo are not listed in the table, but included the following: accidental injury, akathisia, chest pain, cough increased, depression, diarrhea, extrapyramidal syndrome, hostility, hypertension, hypotension, increased appetite, infection, insomnia, leukopenia, malaise, nausea, nervousness, paresthesia, peripheral edema, sweating, tremor, and weight loss.

In these studies, the most commonly observed adverse reactions associated with the use of SEROQUEL (incidence of 5% or greater) and observed at a rate on SEROQUEL at least twice that of placebo were somnolence (18%), dizziness (11%), dry mouth (9%), constipation (8%), SGPT increased (5%), weight gain (5%), and dyspepsia (5%). Table 3 enumerates the incidence, rounded to the nearest percent, of treatment-emergent adverse reactions that occurred during therapy (up to 3 weeks) of acute mania in 5% or more of patients treated with SEROQUEL (doses ranging from 100 to 800 mg/day) used as adjunct therapy to lithium and divalproex where the incidence in patients treated with SEROQUEL was greater than the incidence in placebo-treated patients.

Table 3. Treatment-Emergent Adverse Reaction Incidence in 3-Week Placebo-Controlled Clinical Trials for the Treatment of Bipolar Mania (Adjunct Therapy)<sup>1</sup>

		- [7]
Body System/Preferred Term	SEROQUEL (n=196)	PLACEBO (n=203)
Body as a Whole	, ,	, ,
Headache	17%	13%
Asthenia	10%	4%
Abdominal Pain	7%	3%
Back Pain	5%	3%
Cardiovascular		
Postural Hypotension	7%	2%
Digestive		
Dry Mouth	19%	3%
Constipation	10%	5%
Metabolic and Nutritional		
Weight Gain	6%	3%
Nervous		
Somnolence	34%	9%
Dizziness	9%	6%
Tremor	8%	7%
Agitation	6%	4%
Respiratory		
Pharyngitis	6%	3%

1 Reactions for which the SEROQUEL incidence was equal to or less than placebo are not listed in the table, but included the following: akathisia, diarrhea, insomnia, and nausea.

In these studies, the most commonly observed adverse reactions associated with the use of SEROQUEL (incidence of 5% or greater) and observed at a rate on SEROQUEL at least twice that of placebo were somnolence (34%), dry mouth (19%), asthenia (10%), constipation (10%), abdominal pain (7%), postural hypotension (7%), pharyngitis (6%), and weight gain (6%). Table 4 enumerates the incidence, rounded to the nearest percent, of treatment-emergent adverse reactions that occurred during therapy (up to 8 weeks)

of bipolar depression in 5% or more of patients treated with SEROQUEL (doses of 300 and 600 mg/day) where the incidence in patients treated with SEROQUEL was greater than the incidence in placebo treated patients.

Table 4. Treatment-Emergent Adverse Reaction Incidence in 8-Week Placebo-Controlled Clinical Trials for the Treatment of Bipolar Depression<sup>1</sup>

Body System/Preferred Term	SEROQUEL (n=698)	PLACEBO (n=347)
Gastrointestinal Disorders	,	,
Dry Mouth	44%	13%
Constipation	10%	4%
Dyspepsia	7%	4%
Vomiting	5%	4%
General Disorders and Administrative Site Conditions		
Fatigue	10%	8%
Metabolism and Nutrition Disorders		
Increased Appetite	5%	3%
Nervous System Disorders		
Sedation	30%	8%
Somnolence	28%	7%
Dizziness	18%	7%
Lethargy	5%	2%
Respiratory, Thoracic, and Mediastinal Disorders		
Nasal Congestion	5%	3%
=		

<sup>1</sup> Reactions for which the SEROQUEL incidence was equal to or less than placebo are not listed in the table, but included the following: nausea, upper respiratory tract infection, and headache.

In these studies, the most commonly observed adverse reactions associated with the use of SEROQUEL (incidence of 5% or greater) and observed at a rate on SEROQUEL at least twice that of placebo were dry mouth (44%), sedation (30%), somnolence (28%), dizziness (18%), constipation (10%), lethargy (5%), and nasal congestion (5%). Explorations for interactions on the basis of gender, age, and race did not reveal any clinically meaningful differences in the adverse reaction occurrence on the basis of these demographic factors. Dose Dependency of Adverse Reactions in Short-Term. Placebo-Controlled Trials Dose-related Adverse Reactions: Spontaneously elicited adverse reaction data from a study of schizophrenia comparing five fixed doses of SEROQUEL (75 mg, 150 mg, 300 mg, 600 mg, and 750 mg/day) to placebo were explored for dose-relatedness of adverse reactions. Logistic regression analyses revealed a positive dose response (p<0.05) for the following adverse reactions: dyspepsia, abdominal pain, and weight gain. **Adverse** Reactions in clinical trials with quetianine and not listed elsewhere in the label: The following adverse reactions have also been reported with quetiapine: abnormal dreams and nightmares, hypersensitivity, restless legs syndrome, and elevations in serum creatine phosphokinase (not associated with NMS). Extrapyramidal Symptoms: Dystonia: Class Effect: Symptoms of dystonia, prolonged abnormal contractions of muscle groups, may occur in susceptible individuals during the first few days of treatment. Dystonic symptoms include: spasm of the neck muscles, sometimes progressing to tightness of the throat, swallowing difficulty, difficulty breathing, and/or protrusion of the tongue. While these symptoms can occur at low doses, they occur more frequently and with greater severity with high potency and at higher doses of first generation antipsychotic drugs. An elevated risk of acute dystonia is observed in males and younger age groups. Data from one 6-week clinical trial of schizophrenia comparing five fixed doses of SEROQUEL (75, 150, 300, 600, 750 mg/day) provided evidence for the lack of treatment-emergent extrapyramidal symptoms (EPS) and dose-relatedness for EPS associated with SEROQUEL treatment. Three methods were used to measure EPS: (1) Simpson-Angus total score (mean change from baseline) which evaluates Parkinsonism and akathisia, (2) incidence of spontaneous complaints of EPS (akathisia, akinesia, cogwheel rigidity, extrapyramidal syndrome, hypertonia, hypokinesia, neck rigidity, and tremor), and (3) use of anticholinergic medications to treat emergent EPS.

#### SEROQUEL

			021101	X			
Dose Gr	oups	Placebo	75 mg	150 mg	300 mg	600 mg	750 mg
Parkinso	onism	-0.6	-1.0	-1.2	-1.6	-1.8	-1.8
EPS inci	dence	16%	6%	6%	4%	8%	6%
Antichol medicat		14%	11%	10%	8%	12%	11%

In six additional placebo-controlled clinical trials (3 in acute mania and 3 in schizophrenia) using variable doses of SEROQUEL, there were no differences between the SEROQUEL and placebo treatment groups in the incidence of EPS, as assessed by Simpson-Angus scores, spontaneous complaints of EPS and the use of concomitant anticholinergic medications to treat EPS. In two placebo-controlled clinical trials for the treatment of bipolar depression using 300 mg and 600 mg of SEROQUEL, the incidence of adverse reactions potentially related to EPS was 12% in both dose groups and 6% in the placebo group. In these studies, the incidence of the individual adverse reactions (eg, akathisia, extrapyramidal disorder, tremor, dyskinesia, dystonia, restlessness, muscle contractions involuntary, psychomotor hyperactivity and muscle rigidity) were generally low and did not exceed 4% in any treatment group. The 3 treatment groups were similar in mean change in SAS total score and BARS Global Assessment score at the end of treatment. The use of concomitant anticholinergic medications was infrequent and similar across the three treatment groups. Vital Signs and Laboratory Studies Vital Sign Changes SEROQUEL is associated with orthostatic hypotension [see Warnings and Precautions). Weight Gain In schizophrenia trials the proportions of patients meeting a weight gain criterion of  $\geq 7\%$  of body weight were compared in a pool of four 3- to 6-week placebo-controlled clinical trials, revealing a statistically significantly greater incidence of weight gain for SEROQUEL (23%) compared to placebo (6%). In mania monotherapy trials the proportions of patients meeting the same weight gain criterion were 21% compared to 7% for placebo and in mania adjunct therapy trials the proportion of patients meeting the same weight criterion were 13% compared to 4% for placebo. In bipolar depression trials, the proportions of patients meeting the same weight gain criterion were 8% compared to 2% for placebo. Laboratory Changes An assessment of the premarketing experience for SEROQUEL suggested that it is associated with asymptomatic increases in SGPT and increases in both total

cholesterol and triglycerides. In post-marketing clinical trials, elevations in total cholesterol (predominantly LDL cholesterol) have been observed (see Warnings and Precautions). In placebo controlled monotherapy clinical trials involving 3368 patients on quetiapine fumarate and 1515 on placebo, the incidence of at least one occurrence of neutrophil count <1.0 x 10<sup>9</sup>/L among patients with a normal baseline neutrophil count and at least one available follow up laboratory measurement was 0.3% (10/2967) in patients treated with quetiapine fumarate, compared to 0.1% (2/1349) in patients treated with placebo. Patients with a pre-existing low WBC or a history of drug induced leukopenia/neutropenia should have their complete blood count (CBC) monitored frequently during the first few months of therapy and should discontinue SEROQUEL at the first sign of a decline in WBC in absence of other causative factors (see Warnings and Precautions). Hyperglycemia In 2 long-term placebo-controlled clinical trials, mean exposure 213 days for SEROQUEL (646 patients) and 152 days for placebo (680 patients), the exposure-adjusted rate of any increased blood glucose level (≥126 mg/dl) for patients more than 8 hours since a meal was 18.0 per 100 patient years for SEROQUEL (10.7% of patients) and 9.5 for placebo per 100 patient years (4.6% of patients). In short-term (12 weeks duration or less) placebo-controlled clinical trials (3342 patients treated with SEROQUEL and 1490 treated with placebo), the percent of patients who had a fasting blood glucose ≥126 mg/dl or a non fasting blood glucose ≥200 mg/dl was 3.5% for quetiapine and 2.1% for placebo. In a 24 week trial (activecontrolled, 115 patients treated with SEROQUEL) designed to evaluate glycemic status with oral glucose tolerance testing of all patients, at week 24 the incidence of a treatment-emergent post-glucose challenge glucose level ≥200 mg/dl was 1.7% and the incidence of a fasting treatment-emergent blood glucose level ≥126 mg/dl was 2.6%. ECG Changes Between-group comparisons for pooled placebo-controlled trials revealed no statistically significant SEROQUEL/placebo differences in the proportions of patients experiencing potentially important changes in ECG parameters, including QT, QTc, and PR intervals. However, the proportions of patients meeting the criteria for tachycardia were compared in four 3- to 6-week placebo-controlled clinical trials for the treatment of schizophrenia revealing a 1% (4/399) incidence for SEROQUEL compared to 0.6% (1/156) incidence for placebo. In acute (monotherapy) bipolar mania trials the proportions of patients meeting the criteria for tachycardia was 0.5% (1/192) for SEROQUEL compared to 0% (0/178) incidence for placebo. In acute bipolar mania (adjunct) trials the proportions of patients meeting the same criteria was 0.6% (1/166) for SEROQUEL compared to 0% (0/171) incidence for placebo. In bipolar depression trials, no patients had heart rate increases to >120 beats per minute. SEROQUEL use was associated with a mean increase in heart rate, assessed by ECG, of 7 beats per minute compared to a mean increase of 1 beat per minute among placebo patients. This slight tendency to tachycardia may be related to SEROQUEL's potential for inducing orthostatic changes (see Warnings and Precautions). Other Adverse Reactions Observed During the Pre-Marketing Evaluation of SEROQUEL Following is a list of COSTART terms that reflect treatment-emergent adverse reactions as defined in the introduction to the ADVERSE REACTIONS section reported by patients treated with SEROQUEL at multiple doses ≥75 mg/day during any phase of a trial within the premarketing database of approximately 2200 patients treated for schizophrenia. All reported reactions are included except those already listed in the tables or elsewhere in labeling, those reactions for which a drug cause was remote, and those reaction terms which were so general as to be uninformative. It is important to emphasize that, although the reactions reported occurred during treatment with SEROQUEL, they were not necessarily caused by it. Reactions are further categorized by body system and listed in order of decreasing frequency according to the following definitions: frequent adverse reactions are those occurring in at least 1/100 patients (only those not already listed in the tabulated results from placebo-controlled trials appear in this listing); infrequent adverse reactions are those occurring in 1/100 to 1/1000 patients; rare reactions are those occurring in fewer than 1/1000 patients. Nervous System: Frequent: hypertonia, dysarthria; Infrequent: abnormal dreams, dyskinesia, thinking abnormal, tardive dyskinesia, vertigo, involuntary movements, confusion, amnesia, psychosis, hallucinations, hyperkinesia, libido increased\*, urinary retention, incoordination, paranoid reaction, abnormal gait, myoclonus, delusions, manic reaction, apathy, ataxia, depersonalization, stupor, bruxism, catatonic reaction, hemiplegia; Rare: aphasia, buccoglossal syndrome, choreoathetosis, delirium, emotional lability, euphoria, libido decreased\*, neuralgia, stuttering, subdural hematoma. **Body as a Whole:** Frequent: flu syndrome; Infrequent: neck pain, pelvic pain\*, suicide attempt, malaise, photosensitivity reaction, chills, face edema, moniliasis; Rare: abdomen enlarged. Digestive System: Frequent: anorexia; Infrequent: increased salivation, increased appetite, gamma glutamyl transpeptidase increased, gingivitis, dysphagia, flatulence, gastroenteritis, gastritis, hemorrhoids, stomatitis, thirst, tooth caries, fecal incontinence, gastroesophageal reflux, gum hemorrhage, mouth ulceration, rectal hemorrhage, tongue edema; Rare: glossitis, hematemesis, intestinal obstruction, melena, pancreatitis. Cardiovascular System: Frequent: palpitation; Infrequent: vasodilatation, QT interval prolonged, migraine, bradycardia, cerebral ischemia, irregular pulse, T wave abnormality, bundle branch block, cerebrovascular accident, deep thrombophlebitis, T wave inversion; *Rare:* angina pectoris, atrial fibrillation, AV block first degree, congestive heart failure, ST elevated, thrombophlebitis, T wave flattening, ST abnormality, increased QRS duration. Respiratory System: Frequent: pharyngitis, rhinitis, cough increased, dyspnea; Infrequent: pneumonia, epistaxis, asthma; Rare: hiccup, hyperventilation. Metabolic and Nutritional System: Frequent: peripheral edema; **Infrequent:** weight loss, alkaline phosphatase increased, hyperlipemia, alcohol intolerance, dehydration, hyperglycemia, creatinine increased, hypoglycemia; Rare: glycosuria, gout, hand edema, hypokalemia, water intoxication. Skin and Appendages System: Frequent: sweating; Infrequent: pruritus, acne, eczema, contact dermatitis, maculopapular rash, seborrhea, skin ulcer; Rare: exfoliative dermatitis, psoriasis, skin discoloration. **Urogenital System:** *Infrequent:* dysmenorrhea\*, vaginitis\*, urinary incontinence, metrorrhagia\*, impotence\*, dysuria, vaginal moniliasis\*, abnormal ejaculation\*, cystitis, urinary frequency, amenorrhea\*, female lactation\*, leukorrhea\*, vaginal hemorrhage\*, vulvovaginitis\* orchitis\*; Rare: gynecomastia\*, nocturia, polyuria, acute kidney failure. Special Senses: Infrequent: conjunctivitis, abnormal vision, dry eyes, tinnitus, taste perversion, blepharitis, eye pain; Rare: abnormality of accommodation, deafness, glaucoma. Musculoskeletal System: Infrequent: pathological fracture, myasthenia, twitching, arthralgia, arthritis, leg cramps, bone pain. Hemic and Lymphatic System: Frequent: leukopenia; Infrequent: leukocytosis, anemia, ecchymosis, eosinophilia, hypochromic anemia; lymphadenopathy, cyanosis; Rare: hemolysis, thrombocytopenia. Endocrine System: Infrequent: hypothyroidism, diabetes mellitus; Rare: hyperthyroidism. Post Marketing Experience The following adverse reactions were identified during post approval of SEROQUEL. Because these reactions are 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. Adverse reactions reported since market introduction which were temporally related to SEROQUEL therapy include; anaphylactic reaction. Other adverse reactions reported since market introduction, which were temporally related to SEROQUEL therapy, but not necessarily causally related, include the following: agranulocytosis, cardiomyopathy, hyponatremia, myocarditis, rhabdomyolysis, syndrome of inappropriate antidiuretic hormone secretion (SIADH), and Stevens-Johnson

#### DRUG INTERACTIONS

The risks of using SEROQUEL in combination with other drugs have not been extensively evaluated in systematic studies. Given the primary CNS effects of SEROQUEL, caution should be used when it is taken in combination with other centrally acting drugs. SEROQUEL potentiated the cognitive and motor effects of alcohol in a clinical trial in subjects with selected psychotic disorders, and alcoholic beverages should be avoided while taking SEROQUEL. Because of its potential for inducing hypotension, SEROQUEL may enhance the effects of certain antihypertensive agents. SEROQUEL may antagonize the effects of levodopa and dopamine agonists. The Effect of Other Drugs on Quetiapine Phenytoin: Coadministration of quetiapine (250 mg tid) and phenytoin (100 mg tid) increased the mean oral clearance of quetiapine by 5-fold. Increased doses of SEROQUEL may be required to maintain control of symptoms of schizophrenia in patients receiving quetiapine and phenytoin, or other hepatic enzyme inducers (e.g., carbamazepine, barbiturates, rifampin, glucocorticoids). Caution should be taken if phenytoin is withdrawn and replaced with a non-inducer (e.g., valproate) (see Dosage and Administration). Divalproex: Coadministration of quetiapine (150 mg bid) and divalproex (500 mg bid) increased the mean maximum plasma concentration of quetiapine at steady state by 17% without affecting the extent of absorption or mean oral clearance. Thioridazine: Thioridazine (200 mg bid) increased the oral clearance of quetiapine (300 mg bid) by 65%. Cimetidine: Administration of multiple daily doses of cimetidine (400 mg tid for 4 days) resulted in a 20% decrease in the mean oral clearance of quetiapine (150 mg tid). Dosage adjustment for quetiapine is not required when it is given with cimetidine. P450 3A Inhibitors: Coadministration of ketoconazole (200 mg once daily for 4 days), a potent inhibitor of cytochrome P450 3A, reduced oral clearance of quetiapine by 84%, resulting in a 335% increase in maximum plasma concentration of quetiapine. Caution (reduced dosage) is indicated when SEROQUEL is administered with ketoconazole and other inhibitors of cytochrome P450 3A (e.g., itraconazole, fluconazole, erythromycin, and protease inhibitors). Fluoxetine, Imipramine, Haloperidol, and Risperidone: Coadministration of fluoxetine (60 mg once daily); imipramine (75 mg bid), haloperidol (7.5 mg bid), or risperidone (3 mg bid) with quetiapine (300 mg bid) did not alter the steadystate pharmacokinetics of quetiapine. Effect of Quetiapine on Other Drugs Lorazepam: The mean oral clearance of lorazepam (2 mg, single dose) was reduced by 20% in the presence of quetiapine administered as 250 mg tid dosing. Divalproex: The mean maximum concentration and extent of absorption of total and free valproic acid at steady state were decreased by 10 to 12% when divalproex (500 mg bid) was administered with quetiapine (150 mg bid). The mean oral clearance of total valproic acid (administered as divalproex 500 mg bid) was increased by 11% in the presence of quetiapine (150 mg bid). The changes were not significant. Lithium: Concomitant administration of quetiapine (250 mg tid) with lithium had no effect on any of the steady-state pharmacokinetic parameters of lithium. Antipyrine: Administration of multiple daily doses up to 750 mg/day (on a tid schedule) of quetiapine to subjects with selected psychotic disorders had no clinically relevant effect on the clearance of antipyrine or urinary recovery of antipyrine metabolites. These results indicate that quetiapine does not significantly induce hepatic enzymes responsible for cytochrome P450 mediated metabolism of antipyrine.

#### **USE IN SPECIFIC POPULATIONS**

**Pregnancy** The teratogenic potential of quetiapine was studied in Wistar rats and Dutch Belted rabbits dosed during the period of organogenesis. No evidence of a teratogenic effect was detected in rats at doses of 25 to 200 mg/kg or 0.3 to 2.4 times the maximum human dose on a mg/m<sup>2</sup> basis or in rabbits at 25 to 100 mg/kg or 0.6 to 2.4 times the maximum human dose on a mg/m² basis. There was, however, evidence of embryo/fetal toxicity. Delays in skeletal ossification were detected in rat fetuses at doses of 50 and 200 mg/kg (0.6 and 2.4 times the maximum human dose on a mg/m<sup>2</sup> basis) and in rabbits at 50 and 100 mg/kg (1.2 and 2.4 times the maximum human dose on a mg/m<sup>2</sup> basis). Fetal body weight was reduced in rat fetuses at 200 mg/kg and rabbit fetuses at 100 mg/kg (2.4 times the maximum human dose on a mg/m<sup>2</sup> basis for both species). There was an increased incidence of a minor soft tissue anomaly (carpal/tarsal flexure) in rabbit fetuses at a dose of 100 mg/kg (2.4 times the maximum human dose on a mg/m<sup>2</sup> basis). Evidence of maternal toxicity (i.e., decreases in body weight gain and/or death) was observed at the high dose in the rat study and at all doses in the rabbit study. In a peri/postnatal reproductive study in rats, no drug-related effects were observed at doses of 1, 10, and 20 mg/kg or 0.01, 0.12, and 0.24 times the maximum human dose on a mg/m<sup>2</sup> basis. However, in a preliminary peri/postnatal study, there were increases in fetal and pup death, and decreases in mean litter weight at 150 mg/kg, or 3.0 times the maximum human dose on a mg/m<sup>2</sup> basis. There are no adequate and well-controlled studies in pregnant women and quetiapine should be used during pregnancy only if the potential benefit justifies the potential risk to the fetus. Labor and Delivery The effect of SEROQUEL on labor and delivery in humans is unknown. Nursing Mothers SEROQUEL was excreted in milk of treated animals during lactation. It is not known if SEROQUEL is excreted in human milk. It is recommended that women receiving SEROQUEL should not breast feed. **Pediatric Use** The safety and effectiveness of SEROQUEL in pediatric patients have not been established. Anyone considering the use of SEROQUEL in a child or adolescent must balance the potential risks with the clinical need. Geriatric Use Of the approximately 3700 patients in clinical studies with SEROQUEL, 7% (232) were 65 years of age or over. In general, there was no indication of any different tolerability of SEROQUEL in the elderly compared to younger adults. Nevertheless, the presence of factors that might decrease pharmacokinetic clearance, increase the pharmacodynamic response to SEROQUEL, or cause poorer tolerance or orthostasis, should lead to consideration of a lower starting dose, slower titration, and careful monitoring during the initial dosing period in the elderly. The mean plasma clearance of SEROQUEL was reduced by 30% to 50% in elderly patients when compared to younger patients [see Clinical Pharmacology in full Prescribing Information (12) and Dosage and Administration].

#### DRUG ABUSE AND DEPENDENCE

Controlled Substance SEROQUEL is not a controlled substance. Abuse SEROQUEL has not been 35018-01 07/08 266957 systematically studied, in animals or humans, for its potential for abuse, tolerance or physical dependence. While the clinical trials did not reveal any tendency for any drug-seeking behavior, these observations were not systematic and it is not possible to predict on the basis of this limited experience the extent to which a CNS-active drug will be misused, diverted, and/or abused once marketed. Consequently, patients should be

evaluated carefully for a history of drug abuse, and such patients should be observed closely for signs of misuse or abuse of SEROQUEL, e.g., development of tolerance, increases in dose, drug-seeking behavior.

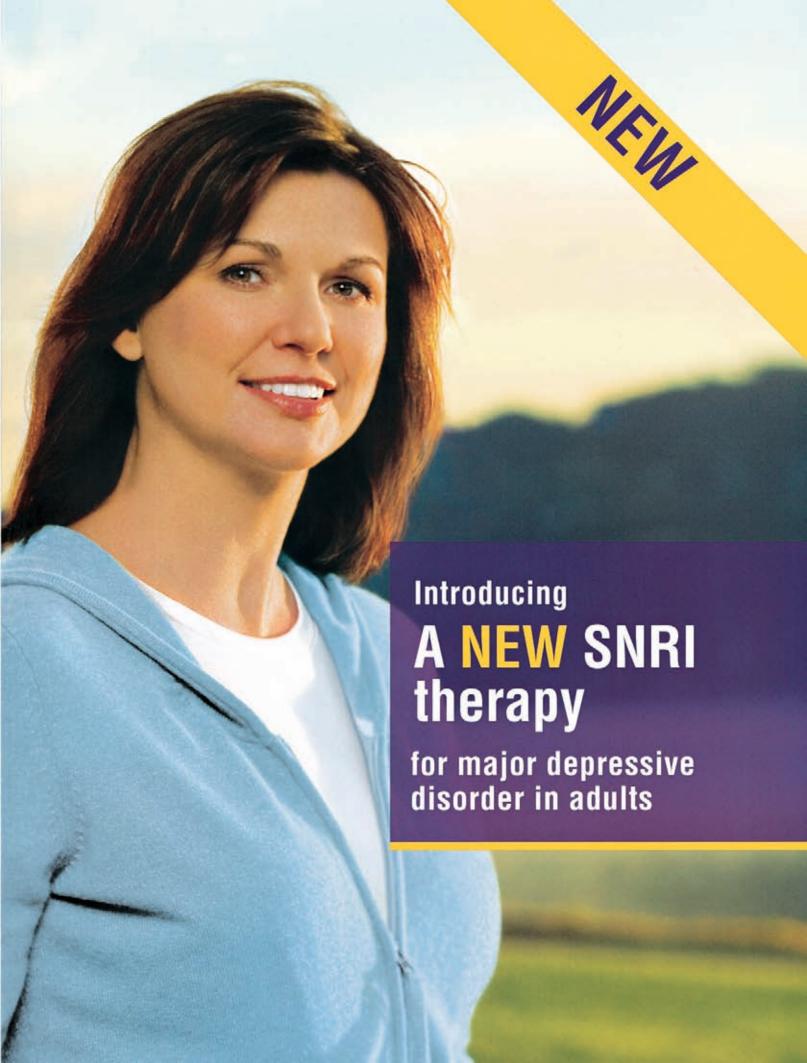
Human Experience In clinical trials, survival has been reported in acute overdoses of up to 30 grams of quetiapine. Most patients who overdosed experienced no adverse reactions or recovered fully from the reported reactions. Death has been reported in a clinical trial following an overdose of 13.6 grams of quetiapine alone. In general, reported signs and symptoms were those resulting from an exaggeration of the drugs known pharmacological effects, ie, drowsiness and sedation, tachycardia and hypotension. Patients with pre-existing severe cardiovascular disease may be at an increased risk of the effects of overdose (see Warnings and Precautions). One case, involving an estimated overdose of 9600 mg, was associated with hypokalemia and first degree heart block. In post-marketing experience, there have been very rare reports of overdose of SEROQUEL alone resulting in death, coma, or QTc prolongation. Management of Overdosage In In case of acute overdosage, establish and maintain an airway and ensure adequate oxygenation and ventilation. Gastric lavage (after intubation, if patient is unconscious) and administration of activated charcoal together with a laxative should be considered. The possibility of obtundation, seizure or dystonic reaction of the head and neck following overdose may create a risk of aspiration with induced emesis. Cardiovascular monitoring should commence immediately and should include continuous electrocardiographic monitoring to detect possible arrhythmias. If antiarrhythmic therapy is administered, disopyramide, procainamide and quinidine carry a theoretical hazard of additive QT-prolonging effects when administered in patients with acute overdosage of SEROQUEL. Similarly it is reasonable to expect that the alpha-adrenergic-blocking properties of bretylium might be additive to those of quetiapine, resulting in problematic hypotension. There is no specific antidote to SEROQUEL. Therefore appropriate supportive measures should be instituted. The possibility of multiple drug involvement should be considered. Hypotension and circulatory collapse should be treated with appropriate measures such as intravenous fluids and/or sympathomimetic agents (epinephrine and dopamine should not be used, since beta stimulation may worsen hypotension in the setting of quetiapine-induced alpha blockade). In cases of severe extrapyramidal symptoms, anticholinergic medication should be administered. Close medical supervision and monitoring should continue until the patient recovers.

#### PATIENT COUNSELING INFORMATION

Prescribers or other health professionals should inform patients, their families, and their caregivers about the benefits and risks associated with treatment with SEROQUEL and should counsel them in its appropriate use. A patient Medication Guide about "Antidepressant Medicines, Depression and other Serious Mental Illness, and Suicidal Thoughts or Actions" is available for SEROQUEL. The prescriber or health professional should instruct patients, their families, and their caregivers to read the Medication Guide and should assist them in understanding its contents. Patients should be given the opportunity to discuss the contents of the Medication Guide and to obtain answers to any questions they may have. Patients should be advised of the following issues and asked to alert their prescriber if these occur while taking SEROQUEL. *Clinical* Worsening and Suicide Risk Patients, their families, and their caregivers should be encouraged to be alert to the emergence of anxiety, agitation, panic attacks, insomnia, irritability, hostility, aggressiveness, impulsivity, akathisia (psychomotor restlessness), hypomania, mania, other unusual changes in behavior, worsening of depression, and suicidal ideation, especially early during antidepressant treatment and when the dose is adjusted up or down. Families and caregivers of patients should be advised to look for the emergence of such symptoms on a day-to-day basis, since changes may be abrupt. Such symptoms should be reported to the patient's prescriber or health professional, especially if they are severe, abrupt in onset, or were not part of the patient's presenting symptoms. Symptoms such as these may be associated with an increased risk for suicidal thinking and behavior and indicate a need for very close monitoring and possibly changes in the medication. Increased Mortality in Elderly Patients with Dementia-Related Psychosis Patients and caregivers should be advised that elderly patients with dementia-related psychoses treated with atypical antipsychotic drugs are at increased risk of death compared with placebo. Quetiapine is not approved for elderly patients with dementia-related psychosis. Neuroleptic Malignant Syndrome (NMS) Patients should be advised to report to their physician any signs or symptoms that may be related to NMS. These may include muscle stiffness and high fever. Hyperglycemia and Diabetes Mellitus Patients should be aware of the symptoms of hyperglycemia (high blood sugar) and diabetes mellitus. Patients who are diagnosed with diabetes, those with risk factors for diabetes, or those that develop these symptoms during treatment should be monitored. Orthostatic Hypotension Patients should be advised of the risk of orthostatic hypotension (symptoms include feeling dizzy or lightheaded upon standing) especially during the period of initial dose titration, and also at times of re-initiating treatment or increases in dose. Leukopenia/Neutropenia Patients with a pre-existing low WBC or a history of drug induced leukopenia/ neutropenia should be advised that they should have their CBC monitored while taking SEROQUEL (see Warnings and Precautions). Interference with Cognitive and Motor Performance Patients should be advised of the risk of somnolence or sedation, especially during the period of initial dose titration. Patients should be cautioned about performing any activity requiring mental alertness, such as operating a motor vehicle (including automobiles) or operating machinery, until they are reasonably certain quetiapine therapy does not affect them adversely. Patients should limit consumption of alcohol during treatment with quetiapine. **Pregnancy and Nursing** Patients should be advised to notify their physician if they become pregnant or intend to become pregnant during therapy. Patients should be advised not to breast feed if they are taking quetiapine. **Concomitant Medication** As with other medications, patients should be advised to notify their physicians if they are taking, or plan to take, any prescription or over-the-counter drugs. *Heat* Exposure and Dehydration Patients should be advised regarding appropriate care in avoiding overheating and dehydration.

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#### IMPORTANT TREATMENT CONSIDERATIONS

PRISTIQ 50 mg is indicated for the treatment of major depressive disorder in adults.

#### WARNING: SUICIDALITY AND ANTIDEPRESSANT DRUGS

Antidepressants increased the risk compared to placebo of suicidal thinking and behavior (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 compared to placebo in adults beyond age 24; there was a reduction in risk with antidepressants compared to placebo in adults aged 65 and older. Depression and certain other psychiatric disorders are themselves associated with increases in the risk of suicide. Patients of all ages who are started on antidepressant therapy should be monitored appropriately and observed closely for clinical worsening, suicidality, or unusual changes in behavior. Families and caregivers should be advised of the need for close observation and communication with the prescriber. PRISTIQ is not approved for use in pediatric patients.

#### Contraindications

- PRISTIQ is contraindicated in patients with a known hypersensitivity to PRISTIQ or venlafaxine.
- PRISTIQ must not be used concomitantly with an MAOI or within 14 days of stopping an MAOI. Allow 7 days after stopping PRISTIQ before starting as MAOI.

#### Warnings and Precautions

- All patients treated with antidepressants should be monitored appropriately and observed closely for clinical worsening, suicidality, and unusual changes in behavior, especially during the first lew months of treatment and when changing the dose. Consider changing the therapeutic regimen, including possibly discontinuing the medication, in patients whose depression is persistently worse or includes symptoms of anxiety, agitation, panic attacks, insomnia, irritability, hostility, aggressiveness, impulsivity, akathisia, hypomania, mania, or suicidality that are severe, abrupt in onset, or were not part of the patient's presenting symptoms. Families and caregivers of patients being treated with antidepressants should be alerted about the need to monitor patients.
- Development of a potentially life-threatening serotonin syndrome may occur
  with SNRIs and SSRIs, including PRISTIQ, particularly with concomitant use
  of serotonergic drugs, including triptans, and with drugs that impair the
  metabolism of serotonin (including MAOIs). If concomitant use is clinically
  warranted, careful observation of the patient is advised, particularly during
  treatment initiation and dose increases. Concomitant use of PRISTIQ with
  serotonin precursors is not recommended.
- Patients receiving PRISTIQ should have regular monitoring of blood pressure since sustained increases in blood pressure were observed in clinical studies.
   Pre-existing hypertension should be controlled before starting PRISTIQ.
   Caution should be exercised in treating patients with pre-existing hypertension or other underlying conditions that might be compromised by increases in blood pressure. Cases of elevated blood pressure requiring immediate treatment have been reported. For patients who experience a sustained increase in blood pressure, either dose reduction or discontinuation should be considered.



For major depressive disorder in adults

# New SNRI therapy. From the start: One dose. No titration.

- The major active metabolite of Effexor XR® (venlafaxine HCl)¹
- One simple 50-mg dose, no need to titrate¹
  - Dosage adjustment is necessary in patients with severe renal impairment or end-stage renal disease and is recommended when discontinuing therapy
- PRISTIQ may help your patients with depression emotionally, physically, and functionally<sup>13</sup>
- Discontinuation rate due to adverse events was comparable to placebo in clinical studies at 50 mg<sup>1</sup>



- SSRIs and SNRIs, including PRISTIQ, may increase the risk of bleeding events.
   Concomitant use of aspirin, NSAIDs, warfarin, and other anticoagulants may add to this risk.
- Mydriasis has been reported in association with PRISTIQ; therefore, patients with raised intraocular pressure or those at risk of acute narrow-angle glaucoma (angle-closure glaucoma) should be monitored.
- PRISTIO is not approved for use in bipolar depression. Prior to initiating treatment with an antidepressant, patients should be adequately screened to determine the risk of bipolar disorder.
- As with all antidepressants, PRISTIQ should be used cautiously in patients with a history or family history of mania or hypomania, or with a history of seizure disorder.
- Caution is advised in administering PRISTIQ to patients with cardiovascular, cerebrovascular, or lipid metabolism disorders. Increases in blood pressure and small increases in heart rate were observed in clinical studies with PRISTIQ. PRISTIQ has not been evaluated systematically in patients with a recent history of myocardial infarction, unstable heart disease, uncontrolled hypertension, or cerebrovascular disease.
- Dose-related elevations in fasting serum total cholesterol, LDL (low density lipoprotein) cholesterol, and triglycerides were observed in clinical studies.
   Measurement of serum lipids should be considered during PRISTIQ treatment.
- On discontinuation, adverse events, some of which may be serious, have been reported with PRISTIQ and other SSRIs and SNRIs. Abrupt discontinuation of PRISTIQ has been associated with the appearance of new symptoms. Patients should be monitored for symptoms when discontinuing treatment. A gradual reduction in dose (by giving 50 mg of PRISTIQ less frequently) rather than abrupt cessation is recommended whenever possible.
- Dosage adjustment (50 mg every other day) is necessary in patients with severe

- renal impairment or end-stage renal disease (ESRD). The dose should not be escalated in patients with moderate or severe renal impairment or ESRD.
- Products containing desvenlafaxine and products containing venlafaxine should not be used concomitantly with PRISTIQ.
- Hyponatremia may occur as a result of treatment with SSRIs and SNRIs, including PRISTIO. Discontinuation of PRISTIQ should be considered in patients with symptomatic hyponatremia.
- Interstitial lung disease and eosinophilic pneumonia associated with venlafaxine (the parent drug of PRISTIQ) therapy have been rarely reported.

#### Adverse Reactions

The most commonly observed adverse reactions in patients taking PRISTIQ vs placebo for MDD in short-term fixed-dose premarketing studies (incidence ≥5% and twice the rate of placebo in the 50-mg dose group) were nausea (22% vs 10%), dizziness (13% vs 5%), hyperhidrosis (10% vs 4%), constipation (9% vs 4%), and decreased appetite (5% vs 2%).

References: 1. Pristiq<sup>100</sup> (desventataxine) Prescribing Information, Wyeth Pharmaceuticals Inc. 2. Data on tile, Wyeth Pharmaceuticals Inc. 3. Streetian DV. Sheetian Disability Scale. In: Rush AJ Jr. Pincus HA, First MB, et al., eds. Handbook of Psychiatric Meusures: 1st ed. Washington, DC. American Psychiatric Association; 2000;113-115.

Please see brief summary of Prescribing Information on adjacent pages.

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Wyeth\*

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#### Extended-Release Tablets

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 toil-free at 1-800-934-5556.

#### WARNING: Suicidality and Antidepressant Drugs

WARNING: Suicidality and Antidepressant Drugs
Antidepressants increased the risk compared to placebo of suicidal thinking and behavior (suicidality) in children, adelescents, and young adults in short-term studies of Major Depressive Disorder (MDD) and other psychiatric disorders. Anyone considering the use of Pristig 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 compared to placebo in adults beged 55 and older. Depression and certain other psychiatric disorders are themselves associated with increases in the risk of suicide. Patients of all ages who are started on antidepressant therapy should be menitored appropriately and observed closely for clinical worsening, suicidality, or unusual changes in behavior. Families and caregivers should be advised of the need for close observation and communication with the prescriber. Pristig is not approved for use in pediatric patients (see Warnings and Procautions (5.1), (see in Specific Populations (6.4), and Patient Counseling Mormation (17.7 in the full prescribing information)].

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

indicates for the treatment of major depressive disorder (MUD).

CONTRAINDICATIONS: Hypersensitivity—Hypersensitivity—In desvenitafaxine succinate, ventafaxine hydrochionide or to any excisents in the Pristiq formulation. Monoamine Oxidase Inhibitors-Pristiq must not be used concernitarity in patients taking monoamine oxidase inhibitors (MAOIs) or in patients who have taken MAOIs within the preceding 14 days due to the risk of serious, sometimes latal, drug interactions with SNRI or SSRI treatment or with other serotonergic drugs. Based on the half-life of desvenitation, at least 7 days should be allowed after stopping Pristiq before starting an MAOI (see Dosage and Administration (2.5) in the full concombine information!

WARNINGS AND PRECAUTIONS: Clinical Worsening and Suicide Risk-Patients with major depressive disorder (MOD), both soult 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 antidepression medications, and this risk may pensist until significant remission occurs. Suicide is a known risk of depression and certain other psychiatric disorders, and these disorders themselves are the strongest predictors of suicide. There has been a long-standing concern, however, that artiblepressants may have a role in inducing worsening of depression and the emergence of suicidality in certain patients during the nearly phases of treatment. Pooled analyses of short-term placebo-controlled studies of articlepressant drugs (SSSIs and others) showed that these drugs increase the risk of suicidal thinking and behavior (suicidality) in children. others) showed that these drugs increase the risk of sucidal thinking and behavior (sucidatily) in chaldren, advisacents, and young adults (ages 18-24) with major depressive disorder (MDU) and other psychiatric disorders. Short-term studies did not show an increase in the risk of suicidatily with antidepressants compared to placebo in adults beyond age 24, there was a reduction with antidepressants compared to placebo controlled studies in children and adolescents with MDD, obsessive compulsive disorder (OCD), or other psychiatric disorders included a total of 24 short-term studies of 9 antidepressant drugs in ever 4,400 patients. The pooled analyses of placebo-controlled studies in adults with MDD or other psychiatric disorders included a total of 25 short-term studies of 9 antidepressant drugs in ever 47,7000 patients. There was considerable variation in risk of suicidatify among terms, but a treatment to the proposal to the p 11 antidepressant drugs in over 77,000 patients. There was considerable variation in risk of sucidality harmous drugs, but a tendency toward an increase in the younger patients for almost all drugs statisfied there were differences in absolute risk of sucidality across the differences for almost and across indications. The risk differences (drug vs. placebo difference in the number of cases of sucidality part 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 getter than the control of the full prescribing information. No suicides occurred in any of the pediatric studies are provided in Table 1 of the full prescribing information. No suicides occurred in any of the pediatric studies are suicides in the adult studies, but the number was not sufficient to reach any conclusions of the pediatric studies of the pediatric studies. effect on suicide. It is unknown whether the suicidality risk extends to longer-term use, i.e., beyond several months. However, there is substantial evidence from placebo-controlled maintenance studies adults with depression that the use of artisopressants 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, anxiety, agitation, panic attacks, insommal, initiability, hostility, aggressiveness, impulsively, akaities possible, and mains, have been reported in adult and pediatric patients being treated with articlepressants for major depressive disorder as well as for other indications, both psychiatric and nonpsychiatric. Although a causal link between the emergence of such symptoms and either the worsening of depression and/or the emergence of succidal impulses has not been established, there is concern that such symptoms may represent procurates to emerging suicidality. Consideration should be given to changing the therapeutic regimen, including possibly discontinuing the medication, in patients whose depression is therapeutic regimen, including possibly discontinuing the medication, in patients whose depression is persistently worse, or who are experiencing emergent suicidality or symptoms that might be precursors in worsening depression or suicidality, especially if these symptoms are severe, abrust in onset, or were not part of the patient's presenting symptoms. If the decision has been made to discontinuation can be associated with certain symptoms (see Warnings and Precautions 9.9 and Desage and Administration can be associated with certain symptoms (see Warnings and Precautions 9.9 and Desage and Administration can be associated with certain symptoms (see Warnings and Precautions 9.9 and Desage and Administration can be associated patients being treated with antidepressants for major depressive disorder or other indications, both psychiatric and noispsychatric, should be alerted about the need to monitor patients for the emergence of agitation, initiability, unusual changes in behavior, and the other symptoms described above, as well as the emergence of suicidality, unusual changes in behavior, and the other symptoms described above, as well as the emergence of suicidality, unusual changes in behavior, and the other symptoms described above, as well as the emergence of suicidality observation by families and caregivers. Prescriptions for Pristig should be written for the smallest quantity of tablets consistent with good patient management, in order to reduce the risk of overdose. Screening patients for begold response to the initial presentation of buplant disorder. A major despressive episode may be the initial presentation of buplant disorder. Whether any of the symptoms described above represent such a conversion is unknown. However, alone may increase the likelihood of precipitation of a mixed/manic episode in patients at risk for bipotar disorder. Whether any of the symptoms described above represent such a conversion is unknown. Hopetar, prior to initiating treatment with an antidepressant, patients with depressive symptoms should be adequately screened to determine if they are at risk for bipotar disorder, such screening should include a detailed psychiatric history, including a family history of suicide, bipotar disorder, and depression, it should be noted that Pristiq is not approved for use in treating bipotal depression. Serotonia Syndrome-The development of a potentially life-threatening serotonin syndrome may occur with Pristiq treatment, particularly with concomitant use of other serotonings closure, forcing financially sides and triptanoja and with drugs that impair metabolism of serotonin (including MADIss). The concomitant use of Pristiq and MADIs is centralindicated [see Contraindications (4.2)]. It concomitant treatment with Pristiq and an SSRs, another SARI or a 5-hydroxytrytamine recipitar agoinst tripting is clinically warranded, careful observation of the patient is advised, particularly during treatment initiation and dose increases. The concomitant use of Pristiq with serotonin procursors (such as tryptophan supplements) is not recommended. Elevated Glood Pressure-Patients receiving Pristiq should have regularly increases were observed in clinical studies. Pre-existing maniforing of blood pressure since dose-dependent increases were observed in clinical studies. Pre-existing hyperfension should be controlled before inflating treatment with Pristin, Caution should be exercised in treating patients with pre-existing hyperfension at other underlying conditions that might be compromised by increases in blood pressure. Cases of elevated plood pressure requiring immediate treatment have been increases in blood pressure. Cases of elevated blood pressure requiring immediate treatment have been reported with Pristia, Sustained, Injoerfeespoor - Sustained blood pressure increases could have adverse consequences. For patients who experience a sustained increase in blood pressure while receiving Pristia, either dose reduction or discontinuation should be considered [see Adverse Resictions (8.1%]. Treatment with Pristia in combinate shutches was associated with sustained hyperfersion, defined as invalined reneigent supine disastilic blood pressure (508P) ≥ 90 mm Hg and ≥ 10 mm Hg above baseline for 3 consecutive on-therapy visits, in clinical studies, regarding the proportion of patients with sustained hyperfersion, the following rates were observed: placebo (0.5%). Pristip 50 mg (1.3%). Pristip 100 mg (0.7%). Pristip 200 mg (1.1%), and Pristip 400 mg (2.3%). Analyses of patients in Pristip controlled studies who met criteria for sustained hyperfersion. 400 mg (2.3%), Analyses of patients in Printing controlled studies who met criteria for sustained hypertension, revealed a dose-dependent increase in the proportion of satients who developed sustained hypertension. Abnormal Bleeding-SSRIs and SNRIs can increase the risk of bleeding events. Concentitant use of aspirit, other drugs that affect platelet function, nonsteroidal anti-inflammatory drugs, warfarin, and other anticoagulants can add to this risk Bleeding events related to SSRIs and SNRIs have ranged from ecchymosis, hematoma, epistasis, and petichiae to fire-threatening hemorrhapes. Patients should be cautioned about the risk of bleeding associated with the concomitant use of Printing and NSRIIs, aspiring, or other drugs that affect coagulation or bleeding. Narrow-angle Glaucoma-Mydriasis has been reported in association with Printing.

therefore, patients with raised intracoular pressure or those of risk of acute narrow-angle glaucoma (angle-closure glaucoma) should be manifored. Activation of Mania/Hypomania-During all MOD and VMS (wasomothe symptoms) phase 2 and phase 3 studies, mania was reported for approximately 0.1% of patients treated with Prisba, Activation of mania/Hypomania has also been reported in a small proportion of patients with major Pristip, Activation of mania/hypomania has also been reported in a small proportion of patients with major affective disorder who were treated with other marketed antidepressants. Place should be used causiously in patients with a history or tamily history of mania or hypomania. Cardiovascular/Cerebrovascular Disease-Caution is advised in administering Pristig to patients with a cardiovascular, cerebrovascular or Ripid metabolism diseased showed in administering Pristig to patients with cardiovascular, cerebrovascular or Ripid metabolism diseased showed in administering Pristig to patients with a cardiovascular showed as a recent history of myocardial inflanction, unstable heart disease, uncontrolled hypertension, or cerebrovascular disease. Patents with these diagnoses, except for cerebrovascular disease, were instuded from clinical studies. Senum Cholesterol and Triglyceride Elevation-Disear-etabled elevations in fasting serum total cholesterol, LDL (low density lipoprotein) cholesterol, and triglyceride elevations the controlled studies. Measurement of serum lipids should be considered during treatment with Pristig (see Adverse Reactions (6.7%). Discontinuation of Treatment with Pristig-Oiscontinuation symptoms have been extended and procedured and procedured in additional pristic during clinical studies in Major. Adverse Reactions (6.1%). Discontinuation of Treatment with Pristiq-Oiscontinuation symptoms have been systematically and prospectively evaluated in patients treated with Pristiq during clinical studies in Major. Depressive Disorder Abrupt discontinuation or dose reduction has been associated with the appearance of new symptoms that include discribers, insused, headache, initiability, insummin, diarrhea, anxiety fatigue, abnormal dreams, and hyperbidiesis, in general, discontinuation events occurred more frequently with longer duration of therapy. During marketing of SNRIs (Senotorin and Norepinephrine Reuptake Imibitors) and SSRIs (Selective Sections). There have been sportained and expense of adverse events occurring upon discontinuation of these drugs, particularly when abrupt, including the following, dysphoric mode, irritability, agitation, discribers, sensory disturbances (e.g., paresthesia, such as electric shock sensations), anisability, confusion; headache, lethargy, emotional lability, incommin, hypomomia, birnitias, and seziones. Walle these events are generally self-limiting, there have been reports of serious discontinuation symptoms. Patients should be monitored for these symptoms when discontinuing treatment with Pristiq. A gradual reduction in the dose rather than attrust cessarion is recommended whenever possible, if intelerable symptoms occur following a matter than attrust cessarion. be monitored for these symptoms when discontinuing treatment with Pristiq. A gradual reduction in the dose rather than abrupt cessation is recommended whenever possible. If intolerable symptoms occur following docrease in the dose or upon discontinuation of treatment, then resuming the previously prescribed dose may be considered. Subsequently, the physician may continue decreasing the dose, but at a more gradual rate (see Dosage and Administration (2.4) and Adverse Reactions (6.1) in full prescribing information). Renal Impairment—in patients with moderate or severe renal impairment or end-stage renal disease (ESRD) the clearance of Pristig was decreased, thus prolonging the elimination half-life of the drug. As a result, three were potentially clinically significant increases in exposures to Pristig (see Clinical Pharmacology (12.6) in full prescribing information), Dosage adjustment (50 mg every other day) is necessary in patients with severe renal impairment or SSRD. The doses should not be escalated in patients with moderate or severe renal impairment or SSRD. The doses should not be escalated in patients with moderate or severe renal impairment or SSRD. The doses should not be escalated in patients with moderate or severe renal impairment or SSRD. The doses should not be escalated in patients with moderate or severe renal impairment or SSRD (see Dosage and Administration (2.2) in the Prescribing information, Section—Cases of Storage Control of International Proposition and Control of the Proposition of Internation (1.2) in the Proposition of Internation (1.2) in the Proposition of the Proposition of the Proposition of the Proposition of Internation (1.2) in the Proposition of the Proposition of the Proposition of Internation (1.2) in the Proposition of the Proposition of Internation (1.2) in the Proposition of In including Prisis, In many cases, this hyponathemia appears to be the result of the syndrome of inappropriate antiduretic normone secretion (SARAH, Elderly patients can be at greater risk of developing hyponathemia with SSRs and SSRIB. Also, patients taking disretics or who are otherwise volume depleted can be at greater risk of see Use in Specific Populations (8.5) and Clinical Pharmacology (12.6) in full prescribing information! Decontinuation of Pristq should be considered in patients with symptomatic hyponethemis and appropriate medical intervention should be instituted. Cookiministration of Drugs Containing Desventiatance and Ventafaxing-Desventiatance is the major active metabolite of ventafaxine. Products containing desventafaxine and products containing ventafaxine should be used concomitantly with Pristic Interstitial Lung Disease. and Eosinophilic Preumonia- Intensitial lung disease and eosinophilic preumonia associated with vestilatione (the parent drug of Prissing) therapy have been rarely reported. The possibility of these adverse events should be considered in patients treated with Pristig who present with progressive dyspiner, cough, or chest discomfert. Such patients should undergo a prempt medical evaluation, and discontinuation of Pristig

events should be considered in patients treated with Pristig who present with progressive dyspnea, cough, or chest disconfers. Such patients should undergo a prompt medical evaluation, and disconfination of Pristig should be considered.

ADVERSE REACTIONS: Clinical Studies Experience: The most commonly observed adverse reactions in Pristig treated MDD patients in short-term fixed dose studies (incidence ±6% and at least shore the rate of placebo in the 50- or 100-mg dose groups) were naisea, disziness, insomnia, hyperhidrosis, constigation, somnience, decreased appetite, another, and specific male sexual function disorders. Adverse, reactions inspecific as reasons for discontinuation of treatmers. The most common adverse reactions leading to disconfinuation in at least 2% of the Pristig-treated patients in the short-term studies, up to 8 weeks, were raused (4%), disziness, headachs and vomiting (2% excite), in the long-term study, up to 9 months, the most common was vomiting (2%). Common adverse reactions in placebo-controlled MDD studies. Table 3 in full Pristows the incidence of common adverse reactions that occurred in 25% of Pristig-treated MDD patients at any dose in the 8-week, placebo-controlled, fixed-dose, premarketing clinical studies. In general, the adverse reactions were most frequent in the first week of the atment. Cardiac dispeties; Palpitations, Subrycardia, Blood pressure increased. Gasthurinestinal dispeties; Natiena, By mouth, District, Cardiac dispeties; Palpitations, Subrycardia, Blood pressure increased, Gasthurinestinal dispeties; Natiena, By mouth, District, Cardiac dispeties; Inspeties, Methodism and rutilition dispeties. Intelligence of several uninary dispeties in any several dispeties. Intelligence in the pristigation of the participation of the common adverse reactions the common adverse reactions and continues of the participation of th cause QT prolongation. No difference was observed between placebo and desveniafaxine treatments for the QRS interval. 19th syn Zhinges Table 7 summarizes the changes that were observed in placebo-controlled, shortering, premarketing studies with Pristig as patients with MDD (diose 50 to 400 mg). Relative to placebo, Pristiq was associated with mean increase of up to 2.1 mm Hg in systolic blood pressure, 2.3 mm Hg in disatolic blood pressure, and 4.1 bgm with supine guise. At the final on-therapy assessment in the 6-month, double-blind, placebo-controlled phase of a long-term study in patients who had responded to Pristig quining the initial 12-week, open-lacel chase, there was no statistical difference in mean weight gain between Pristig- and placebo-controlled phase. There was no statistical difference in mean weight gain between Pristig- and placebo-treated patients. DRUG INTERACTIONS: Central Nervous System (CNS)-Active Agents-The risks of using Pristig in combination with other CNS-active drups has not been systematically evaluated. Consequently, caution is advised when Pristig is triken in combination with other CNS-active drups (see Warnings and Precautions 5.1.19). Monomine Oxidase Inhibitors (MAOIs) - Adverse reactions, some of which were serious, have been reported in patients who have recently been discontinued from a monomine oxidase inhibitor (MAOI) and started on antidepressants with pharmacological properties similar to Pristig (SNRts or SSRts). who have recently had SNRI or SSRI therapy discontinued prior to initiation of an MADI [see Contracted 4.2]. Services SNRI or SSRI therapy discontinued prior to initiation of an MADI [see Contracted (4.2). Services SNRI or SNRI or SSRI therapy discontinued prior to initiation of an MADI [see Contracted syndrome, caution is advised when Pristiq is coadministered with other drugs that may affect the servicency. neurotransmitter systems (see Warnings and Precautions i5.2). Drugs that Interfere with Hemostasis (e.g.

NSAIDs, Aspirin, and Warfarin)- Serotonin release by platelets plays an important role in hemostasis. Epidemiological studies of case-control and cohort design have demonstrated an association between use of psychotropic drugs that interfere with serotonin reuptake and the occurrence of upper gastrointestinal bleeding. These studies have also shown that concurrent use of an NSAID or aspirin may potentiate this risk of bleeding. psychotropic drugs that interfere with serotonin reuptake and the occurrence of upper gastrointestinal bleeding. These studies have also shown that concurrent use of an NSAID or aspirin may potentiate this risk of bleeding. Altered anticoagulant effects, including increased bleeding, have been reported when SSRIs and SNRIs are coadministered with warfarin. Patients receiving warfarin therapy should be carefully monitored when Pristig is initiated or discontinued. Ethanol- A clinical study has shown that desvenlafaxine does not increase the impairment of mental and motor skills caused by ethanol. However, as with all CNS-active drugs, patients should be advised to avoid alcohol consumption while taking Pristiq. Potential for Other Drugs to Affect Desvenlafaxine-Inibitors of CVP3A4 (ketoconazole)- CVP3A4 is a minor pathway for the metabolism of Pristiq. Inhibitors of other CYP enzymes- Based on *in vitro* data, drugs that inhibit CYP isozymes 1A1, 1A2, 2A6, 2D6, 2C8, 2C9, 2C19, and ZE1 are not expected to have significant impact on the pharmacokinetic profile of Pristiq. Potential for Desvenlafaxine to Affect Other Drugs. Drugs metabolized by CYP2D6 (desipramine)- In vitro studies showed minimal inhibitory effect of desvenlafaxine on CYP2D6. Clinical studies have shown that desvenlafaxine does not have a clinically relevant effect on CYP2D6 metabolism at the dose of 1ong daily. Concomitant use of desvenlafaxine with a drug metabolized by CYP2D6 can result in higher concentrations of that drug. Drugs metabolized by CYP3A4 midrazolam)- In vitro, desvenlafaxine does not inhibit CYP1A2, 2A6, 2C8, 2C9 and 2C19 in vitro, desvenlafaxine does not inhibit or flow that drug. Drugs metabolized by CYP3A4 can result in lower exposures to that drug. Drugs metabolized by CYP3A4, 2C8, 2C8, 2C9 and 2C19 in vitro, desvenlafaxine does not inhibit CYP1A2, 2A6, 2C8, 2C9, and 2C19 in vitro, desvenlafaxine does not inhibit or for the P-glycoprotein transporter. The pharmacokinetics of Pristiq with a drug metabolized by these cYP isozym to SNRs (Serotonin and Norepinephrine Reuptake Inhibitors), or SSRs (Selective Serotonin Reuptake Inhibitors), at 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, womiting, hypodyneamia, hypotonia, hyperrolina, hyperreflexia, tremor, litteriness, irritability, and constant crying. These features are consistent with either a direct toxic effect of SSRIs and SNRIs 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 (5.2]]. When treating a pregnant woman with Pristiq during the third trimester, the physician should carefully consider the potential risks and benefits of treatment [see Dosage and Administration (2.2]]. Labor and Delivery- The effect of Pristiq on labor and delivery in humans is unknown. Pristig should be used during labor and delivery only if the potential benefits justify the potential risks. Nursing Mothers- Desvenlataxine (0-desmethylvenlafaxine) is excreted in human milk. Because of the potential for serious, selverse reactions in nursino infants from Pristin a decision should he made whether or not to Nursing womers—besverlataxine (0-desimently) vientalaxine) is excreted in human milk. Because of the potential for serious adverse reactions in nursing infants from Pristiq, a decision should be made whether or not to discontinue nursing or to discontinue the drug, taking into account the importance of the drug to the mother. Only administer Pristiq to breastfeeding women if the expected benefits outweigh any possible risk. **Pediatric Use-**Safety and effectiveness in the pediatric population have not been established [see Box Warning and Warnings and Precautions (5.7)]. Anyone considering the use of Pristiq in a child or adolescent must balance the potential risks with the clinical need. **Geriatric Use-**Of the 3,292 patients in clinical studies with Pristiq, 5% were 65 years of age with the clinical need. **Geriatric Use**—Of the 3,292 patients in clinical studies with Pristiq, 5% were 65 years of age or older. No overall differences in safety or efficacy were observed between these patients and younger patients, but greater sensitivity of some older individuals cannot be ruled out. For elderly patients, possible reduced renal clearance of desvenlataxine should be considered when determining dose [see Dosage and Administration (2.2) and Clinical Pharmacology (12.6) in the full prescribing information]. **Renal Impairment**—In subjects with renal impairment the clearance of Pristiq was decreased. In subjects with severe renal impairment (24-hr CrCl 3 on L/min) and end-stage renal disease, elimination half-lines were significantly prolonged, increasing exposures to Pristig; therefore, dosage adjustment is recommended in these patients [see Dosage and Administration (2.2) and Clinical Pharmacology (12.6) in the full prescribing information]. **Hepatic Impairment**—The mean t<sub>vic</sub> changed from approximately 10 hours in healthy subjects and subjects with mild hepatic impairment to 13 and 14 hours in moderate and severe hepatic impairment, respectively. No adjustment in starting dosage is necessary for patients with hepatic impairment. with henatic impairment

OVERDOSAGE: 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 > 600 mg that were possibly related to Pristiq included headache, vomiting, agitation, dizziness, nausea, 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 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 (e.g., prolongation of 0T interval, bundle branch block, QRS prolongation), sinus and entricular tachycardia, bradycardia, hypotension, rhabdomyolysis, vertigo, liver necrosis, serotonin syndrome, and death have been reported. Published retrospective studies report that venlafaxine overdosage may be associated with an increased risk of fatal outcomes compared to that observed with SSRI antidepressant products, but lower than that for tricyclic antidepressants. Epidemiological studies have shown that venlafaxine-treated patients have a higher pre-existing burden of suicide risk factors than SSRI-treated patients. The extent to which the finding of 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, is not clear. Prescriptions for Pristiq should be written for the smallest quantity of capsules consistent with good patient management, in order to reduce the risk of overdosa. Management of Overdosage—Treatment should consist of those general measures employed in the management of overdosage—Treatment should consist of those general measures are also recommended. Castric lavage with a large-bore orgastric tube with appropriate airway, oxygenation, and ventilation. Monitor cardiac rhythm and vital signs. General supportive and symptomatic measures are also recommended. Castric lavage with a large-bore orgastric tube with appropriate airway protection, if ne

This brief summary is based on Pristiq Prescribing Information W10529C002, revised April 2008.

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#### ■ Effectively treats acute manic and mixed episodes

#### ■ Well-established tolerability profile

GEODON is indicated for the treatment of acute manic or mixed episodes associated with bipolar disorder, with or without psychotic symptoms.

Elderly patients with dementia-related psychosis treated with antipsychotic drugs are at an increased risk of death compared to placebo. GEODON is not approved for the treatment of patients with dementia-related psychosis.

GEODON is contraindicated in patients with a known history of QT prolongation, recent acute myocardial infarction, or uncompensated heart failure, and should not be used with certain other QT-prolonging drugs. GEODON has been associated with prolongation of the QT<sub>c</sub> interval. In some drugs, QT prolongation has been associated with torsade de pointes, a potentially fatal arrhythmia. Patients who are at risk for electrolyte disturbances should have baseline measurements performed before initiating GEODON. Patients on diuretics should be monitored.

As with all antipsychotic medications, a rare and potentially fatal condition known as neuroleptic malignant syndrome (NMS) has been reported with GEODON. NMS can cause hyperpyrexia, muscle rigidity, diaphoresis, tachycardia, irregular pulse or blood pressure, cardiac dysrhythmia, and altered mental status. If signs and symptoms appear, immediate discontinuation, treatment, and monitoring are recommended.

#### ■ Target 120-160 mg/day on Day 2

#### ■ Initiate dosing at 80 mg/day with meals

Prescribing should be consistent with the need to minimize tardive dyskinesia (TD), a potentially irreversible dose- and duration-dependent syndrome. If signs and symptoms appear, discontinuation should be considered since TD may remit partially or completely.

Hyperglycemia-related adverse events, sometimes serious, have been reported in patients treated with atypical antipsychotics. There have been few reports of hyperglycemia or diabetes in patients treated with GEODON, and it is not known if GEODON is associated with these events. Patients treated with an atypical antipsychotic should be monitored for symptoms of hyperglycemia.

Precautions include the risk of rash, orthostatic hypotension, and seizures.

The most common adverse events associated with GEODON in bipolar mania were somnolence, extrapyramidal symptoms, dizziness, akathisia, and abnormal vision.

In short-term schizophrenia clinical trials, 10% of GEODON-treated patients experienced a weight gain of ≥7% of body weight vs 4% for placebo.

Individual results may vary.

Please see brief summary of prescribing information on adjacent page.

For more information, please visit www.pfizerpro.com/GEODON



Increased Martality in Elderly Patients with Demortia-Riciated Psychosis — Elderly patients with demortia related psychosis beated with antigsychotic drugs are at an increased risk of leath. Analyses of severteen glacebo-controlled triols (modal duration of 10 weeks), largely in patients taking any collaminosychotic drugs, revealed a risk of death in drug-treated patients of between 1.5 to 1.7 times the risk of death in allowed beated patients. One weet the course of a pipical 16-week controlled trial, for an end of death in drug-treated patients was about 4.5%, compared to a rate of about 2.5% in the placebo group. Although the causes of death were voired, most of the death appeared to the elder surgicus and antipsychotic drugs, treatment with conventional ampsychotic drugs may increase mortality. The extent to which the findings of increased mortality in observational studies may be attributed to the analtspychotic drug as opposed to some characteristics) of the glacets; and conventional antipsychotic drug as opposed to some characteristics) of the glacets is not clear. Geodon (piprasidone) is not approved for the treatment with the mentils. Related Psychosis (see WARNINGS).

INDICATIONS—GEODON Capsules is indicated for the treatment of schizophrenia and acute munic or mixed episodes associated with bipolar disorder with or without psychotic leatures. GEODON\* (aphrasidone mesylate) for injection is indicated for acute agitation in existing them.

schlopfrenk gathets. CONTRAINDS—OT Prolongation: Richasse of DECIDIA's dose restrict prolongation of the UT interval and the known association of fastal annitythmuse, with UT prolongation they some other drugs. GEDIDA's confinanticated in patients with a known field by of UT prolongation i including compentationing UT syndromy, with reconfluction proposation including compentation from UT syndromy. With reconfluction proposation includes programs from the street students between 65000N and other drugs that prolong the UT interval have not been performed. An additive effect of 65000N and other drugs that prolong the UT interval have not been performed. An additive effect of 65000N and other drugs that prolong the UT interval have not been performed. An additive effect of 65000N and other drugs that prolong the UT interval have a CEDIDON should not be given with defetilide, soluted, guardine, other Class to and ill anti-arrivy times, missociation. Brookdaine, Chropromatine, dropered. rde sparficulori gatificación immificación habitantnes meficiparis pertamidos arsenctricixide levornethabitacetats dotacitivo nesyste: probued or biominus. GECOON is also contraindicated with drugs that have demonstrated DT prolongation as one of their humocodynamic effects and have this effect described in the full prescribing information as a contraindication in a bised or halded warning see WARNINGS . GECOON is contraindicated in individuals with a known hypersensitivity to the product. WARNINGS — increased Abotably in Elderly Palvents with Demontia-Related Psychosis: Elderly patients with demontia-related psychosis treated with antipsycholic drugs are at an increased risk of death. GEODON (pipers) does it not approved for the treatment of policeris with demontia-related psychosis; (see BOXED WARRING). If Prologopation and Risk of Sadden Orach. GEODON as exhould be avoided in combination with other drugs that are known to prolong the OT, interval. Additionally, clinicians should be alter to the electrication of other drugs that have been cereatisety observed that prolong the OT, interval. Each disposition and but alter to the electrication of other drugs that have been cereatisety observed that prolong the OT, interval. Each drugs should not be particularly to the prolong the OT, or the comparated with GEODON with several other drugs effective in the treatment of schoolynesis was conducted in patient volunteers. The mean increase in OT, from baseline for GCODON ranged from approximation of the Town of the comparated rules in trigenidate, electrogaine, questionates, and halopperiodal), but was approximately 14 more less than the prolongation observed for Brondarine. In this study, the effect of EEDOOM and TI, length was not approximately by the presence of a metabolic inhibitor (infocoscarie 200 mg bid), in placetho controlled trials, GEODON increased the OT, interval compared to place to be good trials, or the bid of the control of the study, the effect of EEDOOM increased the OT, interval compared to place to good trials of the OT, interval compared to place to be good to the control of the proposition of the bighest recommended daily does of 150 mg. In clinical trials the electrocarding range of CEODON serves and the day to the order of the compared to place the order of the compared to the proposition of t Mortality in Elderly Patients with Dementia-Related Psychosis: Elderly patients with dementia-related psychosis treated with electrocardiograms of 2,2900 (0.06%) GEODON patients and 1,440 (0.25%) placebo patients revealed OT, intervals exceeding the potentially clinically relevant interchald of 500 mac. In the GEODON adjects, nother case suggested a role of GEODON. Some drugs that previous the CF.OT, intervals have been associated with the occurrence of locased de posities and with sadden unexplained death. The retail lonship of OT OT, prolongation may also increase the larger increases (29 mass and greater) but it is possible that smaller OT OT, prolongation may also increase the same of the insurance of institutions, such as those with hybridalization by geomagnessimm, organic precisiopation. Anthough lorsade depointes has not been observed in association with the use of GEODON attentions of the commence of occasions are precisionally associated with the use of GEODON attentions of the commence of the recommended dover. The premarketing superience for GEODIN did not reveal an excess of mentality for GEODION compand is characteristic analysis of pictors of young or pictors, but the extent of response was intelled, especially for the drags used as active contribution and placebo. Nevertheless, GEODIN's larger prolongation of QT, length companed to several other antipsycholic drugs raises the possibility that the risk of sudden death may be greater for GEODIN that has been deather antipsycholic drugs raises. This possibility expense is the examinate in deciding a manipal alternative drug products. Certain incumultances may increase the risk of the occurrence of tomade of pictories and/or sudden death in a association with the use of drugs that prolong the QT, interval, including (T) breakcast as the prolongation of the QT interval. GEODION statement are of other drugs that prolong the QT, interval, and (4) presence of organizal prolongation of the QT interval. GEODION statement are of other drugs that prolong the QT, interval, and (4) presence of organizal prolongation of the QT interval. GEODION statement with a history of cardiac arrhythmist (see CONTRIANIOLATIONS), and see Drug determined PRECAUTIONS). It is recommended that adjacets below considered to GEODION seatoner who are at risk for significant desired destroyled in adjacets. patients being considered for GEOOON treatment who are at risk for significant electrolyte disturbances. hypokalemia in particular patients being considered for GEOUNI freatment who are at risk for significant electrolyte disturbances, hypokalemia in particular, have baseline serum polassium and magnesium measurements. Hypokalemia (andle in hypomagnesemia) may inceed the risk of Of prolongation and antifythmia. Hypokalemia may resulf from disturbis characy, distribus, and other causes. Patients with leve serum patassium and/or magnesium shoold be registed with those electrolytes before proceeding with treatment. It is essential to periodically mainter serum electrolytes in patients for whose distributions and artifythmia, but it is not clear that matter servering ECG measures of intervals may also increase the risk of further prolongation and artifythmia, but it is not clear that matter screening ECG measures of effective in obtaining singificant carbonic of the proceedings of the patients. Participated and processing experiences of e.g. of prolongation, recent acute myocardial interction, uncompensated heart failure, or cardiac artifythmia. GEOUN should be was forced launch to collect whose accurate an interction, uncompensated heart failure. Or cardiac artifythmia. GEOUN should be was forced launch to collect whose accurate an interction, uncompensated heart failure. eq. Of prelongation, recent acute myscardial interction, uncompensated heart failure, or cardiac arthythmia. GE000N should be discontinued in patients who are found to have persistent OT, measurements. 500 makes. Neverlaptic Marginary (MMS): A potentially faild suppliers complete sometimes between the site founding of Marginard Syndrome (MMS) has been reported in association with administration of antisysphetic charge. The management of MMS should include (1) immediate discontinuation of antisysphetic charges and where drugs not essential to construent therapy. (2) interestive symptomatic brotherand and medical mostocing, and start or account that serious medical problems for which specific twothers as a wallable. If a patient requires antisysphotic charge should be cardially received an account of the patient serious medical problems for which specific twothers as a wallable. If a patient requires antisysphotic charge should be cardially reviewed an importance of the start of the patient requires an account of the start of the s systems, liness, e.g., Gevaled WECs. Most patients improved promptly upon treatment with antihintamines or steroes and or upon decontinuation of GEODON, and all patients were reported to recover completely. Upon appressing of cash for which an attemptee stology cannot be identified. GEODON should be discontinued. Outh outsit, Hypotensian, GEODON may induce or housely hypotensian associated. cannot be identified. PERDONs should be classorement. Betterate, hypotherian discovering the initial draw discovering the hypotherian association with discovering the hypotherian process associated programs. Let hypotherian associated from the initial draw distorency process. Success was reported in 0.5% of 05000h private CPSOON should be used with particular passers in patients with known conflictable disease or control of 05000h private disease. 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nd inclinations in the Patient Information Sectionshould be discussed with patients. Laboratory Tests: Patients being considered The EEOON between the area of risk of significant electrispic disturbances, should have baseline service policious and magnetia m measurements. Low servine potassion and magnesiours should be replaced before treatment. Patients who are started on discretics planing. GEODON therapy need periodic monitoring of servine potassion and magnesiour. Discontinue GEODON in patients who are bound to have periodic monitoring of servine potassion and magnesiour. Discontinue GEODON in patients who are bound to have periodic many magnesions. Self-GEODON in magnesions and patients who are bound to have periodic discontinued and provinced the effects of ordinary drug plant provincing the QT inferval. QT little in measurements. Self-GEODON may enhance the effects of ordinary drug plant provincing the QT inferval and provincing agents. 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# IMPORTANT CORRECTION OF DRUG INFORMATION ABOUT EFFEXOR XR® (VENLAFAXINE HCI) EXTENDED-RELEASE CAPSULES

An advertisement in professional journal publications for EFFEXOR XR® (venlafaxine HCI) Extended-Release Capsules for the treatment of major depressive disorder was the subject of a Warning Letter issued by the U.S. Food and Drug Administration (FDA) in December 2007. The FDA stated that the journal ad was misleading because it overstated the efficacy of EFFEXOR XR, made unsubstantiated superiority claims, and contained other unsubstantiated claims regarding EFFEXOR XR.

Wyeth would like to take this opportunity to clarify the content of the advertisement.

# Claims that Reference the Baldomero et al Study and Other Related Claims

The FDA objected to the claim, "In an open-label study of patients who failed previous antidepressant treatment, nearly 60% achieved remission when changed to EFFEXOR XR." The FDA determined that the Baldomero study (the cited reference for this claim) could not be relied upon as substantial evidence to support the claim due to the following reasons: (1) the study was an openlabel study, which is not an appropriate study design to measure subjective end points because it fails to minimize potential bias; (2) the study did not include a placebo group, so there was no way to determine the actual effect size of the drug; and (3) the study did not provide information about whether EFFEXOR XR was superior to failed therapy because study subjects were not randomized to their previously failed therapy. Therefore, the FDA stated that the study failed to support the 60% remission rate claim as well as any conclusion that EFFEXOR XR is superior to other antidepressant treatments. In addition to the above claim, the FDA stated that other claims added to the misleading impression that patients who have failed previous antidepressant therapy can expect improvement when switching to EFFEXOR XR.

#### Claims from the PREVENT Study

The FDA objected to the claim, "In the PREVENT study, the probability of preventing a new episode of depression was 92% with EFFEXOR XR in maintenance year 2 vs. 55% with placebo." The FDA stated that the cited claim overstated the efficacy of EFFEXOR XR by implying that the general patient population suffering from major depressive disorder can expect a 92% probability of preventing a recurrent depressive episode after two years of treatment when this is not supported by substantial evidence.

The cited study for this claim was a randomized, multicenter, double-blind study (n=1096) comparing EFFEXOR XR with placebo. The study was designed to provide efficacy data regarding recurrence prevention with EFFEXOR XR after two years of maintenance treatment. It followed patients through 4 different time periods: a 10-week acute period, a 6-month continuation period, an initial 12-month maintenance period (maintenance year 1), and a second 12-month maintenance period (maintenance year 2). At the end of each period, patients were only considered eligible for inclusion in the next period if they were still responding to the drug. Patients dropped out of the study during each of the periods for different reasons (eq, lack of efficacy, adverse events). At the start of each maintenance period, the remaining patients who still showed a response to EFFEXOR XR were re-randomized to EFFEXOR XR or placebo. Because a high percentage of EFFEXOR XR patients were either re-randomized to placebo or were discontinued from the study before entering maintenance year 2 and because only patients who responded to EFFEXOR XR were selected to continue to the next phase of treatment, the FDA determined that the results of the study could not be extrapolated to the general patient population suffering from major depressive disorder.

## Claim Regarding Clinical Experience and Number of Patients

The FDA objected to the claim, "More than 12 years of clinical experience and over 20 million patients treated with EFFEXOR/EFFEXOR XR." The claim of 20 million EFFEXOR/EFFEXOR XR patients was estimated from the number of U.S. prescriptions, average daily consumption, and average length of therapy. The FDA determined that this claim was misleading based on the referenced data because the calculations used did not reflect the number of "unique" patients. Because there are no unique patient-level data available for the entire 14-year period during which EFFEXOR/EFFEXOR XR has been on the U.S. market, the claim is no longer used in EFFEXOR XR promotional materials.

Please see brief summary of Prescribing Information on adjacent pages.

EFFEXOR® and EFFEXOR XR® are registered trademarks of Wyeth Pharmaceuticals Inc.

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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 1-80-0

#### Suicidality and Antidepressant Drugs

Antidepressants increased the risk compared to placebo of suicidal thinking and behavior (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 EFFEXOR XR 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 compared to placebo in adults beyond age 24; there was a reduction in risk with antidepressants compared to placebo in adults aged 65 and older. Depression and certain other psychiatric disorders are themselves associated with increases in the risk of suicide. Patients of all ages who are started on antidepressant therapy should be monitored appropriately and observed closely for clinical worsening, suicidality, or unusual changes in behavior. Families and caregivers should be advised of the need for close observation and communication with the prescriber EFEXOR XR is not approved for use in pediatric patients. (See WARRINGS: Clinical Worsening and Suicide Risk, PRECAUTIONS: Information for Patients, and PRECAUTIONS: Pediatric Use.)

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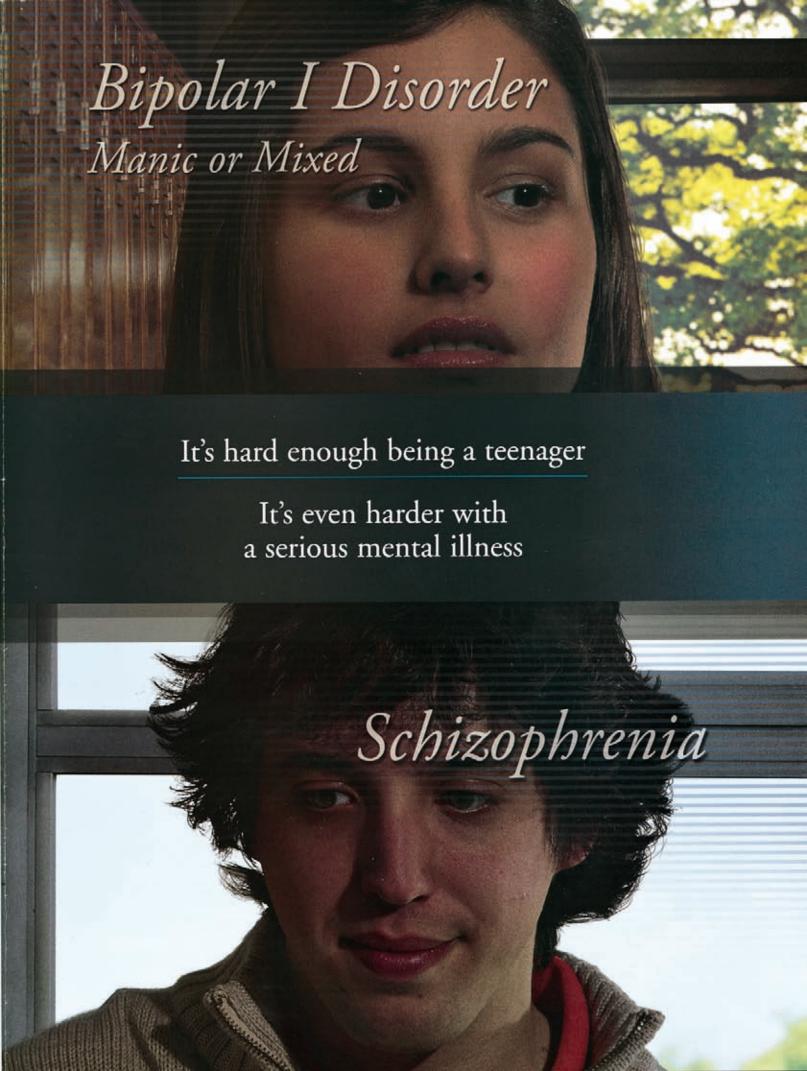
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This brief summary is based on Effexor XR, Prescribing Information W10404C036 ET01, revised February 2008.

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Acute and maintenance treatment of Manic and Mixed episodes associated with Bipolar I Disorder with or without psychotic features in pediatric patients 10 to 17 years of age.

# Help reveal the person within

ABILIFY is indicated for acute and maintenance treatment of Schizophrenia in adolescents 13 to 17 years of age.





# Proven effective

# Pediatric Bipolar I Disorder, Manic or Mixed (aged 10 to 17)

Significant results demonstrated by mean change in Y-MRS Total Score at study endpoint (Week 4), in a randomized, placebo-controlled trial in pediatric patients with Bipolar I Disorder, Manic or Mixed<sup>1</sup>

# Adolescent Schizophrenia (aged 13 to 17)

- Significant results demonstrated by mean change in PANSS<sup>™</sup> Total Score at study endpoint (Week 6), in a randomized, placebo-controlled trial in adolescents with schizophrenia<sup>2</sup>
- High completion rate in large clinical trials of pediatric patients with Bipolar I Disorder, Manic or Mixed (N=296), and adolescents with Schizophrenia (N=302)<sup>1,2</sup>

Antidepressants increased the risk compared to placebo of suicidal thinking and behavior (suicidality) in children, adolescents, and young adults in short-term studies of Major Depressive Disorder (MDD) and other psychiatric disorders. Patients of all ages who are started on antidepressant therapy should be monitored appropriately and observed closely for clinical worsening, suicidality, or unusual changes in behavior, especially during the initial few months of therapy, or at times of dose changes. ABILIFY is not approved for use in pediatric patients with depression (see Boxed WARNING).

Commonly observed adverse reactions (≥5% incidence and at least twice the rate of placebo for ABILIFY vs placebo, respectively):

- Pediatric patients (10 to 17 years) with bipolar mania: somnolence (23% vs 3%), extrapyramidal disorder (20% vs 3%), fatigue (11% vs 4%), nausea (11% vs 4%), akathisia (10% vs 2%), blurred vision (8% vs 0%), salivary hypersecretion (6% vs 0%), and dizziness (5% vs 1%)
- Adolescents (13 to 17 years) with Schizophrenia: extrapyramidal disorder (17% vs 5%), somnolence (16% vs 6%), and tremor (7% vs 2%)

The efficacy of ABILIFY for the maintenance treatment of Bipolar I Disorder or Schizophrenia in the pediatric population has not been evaluated. Maintenance efficacy can be extrapolated from adult data along with comparisons of ABILIFY pharmacokinetic parameters in adult and pediatric patients.

Thus, it is generally recommended that responding patients be continued beyond the acute response, but at the lowest dose needed to maintain remission. Patients should be periodically reassessed to determine the need for maintenance treatment.

Please see IMPORTANT SAFETY INFORMATION, including **Boxed WARNINGS**, on next page.

Y-MRS: Young Mania Rating Scale.

PANSS<sup>to</sup> (Positive and Negative Syndrome Scale) is a trademark of Multi-Health Systems, Inc.



# IMPORTANT SAFETY INFORMATION and INDICATIONS for ABILIFY® (aripiprazole)

#### INDICATIONS

ABILIFY (aripiprazole) is indicated for:

- Acute and maintenance treatment of manic and mixed episodes associated with Bipolar I Disorder with or without psychotic features in pediatric patients 10 to 17 years of age
- Adjunctive therapy to either lithium or valproate for the acute treatment of manic and mixed episodes associated with Bipolar I Disorder with or without psychotic features in pediatrics 10 to 17 years of age
- Acute and maintenance treatment of Schizophrenia in adolescents 13 to 17 years of age

#### IMPORTANT SAFETY INFORMATION

# Increased Mortality in Elderly Patients with Dementia-Related Psychosis

Elderly patients with dementia-related psychosis treated with antipsychotic drugs are at an increased risk (1.6 to 1.7 times) of death compared to placebo (4.5% vs 2.6%, respectively). Although the causes of death were varied, most of the deaths appeared to be cardiovascular (eg, heart failure, sudden death) or infectious (eg, pneumonia) in nature. ABILIFY is not approved for the treatment of patients with dementia-related psychosis.

# Suicidality and Antidepressant Drugs

Antidepressants increased the risk compared to placebo of suicidal thinking and behavior (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 adjunctive ABILIFY or another antidepressant in a child, adolescent, or young adult must balance this risk with the clinical need. Short-term studies did not show an increased risk of suicidality in adults beyond age 24. Depression and certain other psychiatric disorders are themselves associated with increases in the risk of suicide. Patients of all ages who are started on antidepressant therapy should be monitored appropriately and observed closely for clinical worsening, suicidality, or unusual changes in behavior. Families and caregivers should be advised of the need for close observation and communication with the prescriber. ABILIFY is not approved for use in pediatric patients with depression.

See Full Prescribing Information for complete Boxed WARNINGS

Contraindication - Known hypersensitivity reaction to ABILIFY. Reactions have ranged from pruritus/urticaria to anaphylaxis.

- Cerebrovascular Adverse Events, Including Stroke Increased incidence of cerebrovascular adverse events (eg, stroke, transient ischemic attack), including fatalities, have been reported in clinical trials of elderly patients with dementia-related psychosis treated with ABILIFY
- Neuroleptic Malignant Syndrome (NMS) As with all antipsychotic medications, a rare and potentially fatal condition known as NMS has been reported with ABILIFY. NMS can cause hyperpyrexia, muscle rigidity, diaphoresis, tachycardia, irregular pulse or blood pressure, cardiac dysrhythmia, and altered mental status. If signs and symptoms appear, immediate discontinuation is recommended
- Tardive Dyskinesia (TD) The risk of developing TD and the potential for it to become irreversible may increase as the duration of treatment and the total cumulative dose increase. Prescribing should be consistent with the need to minimize TD. If signs and symptoms appear, discontinuation should be considered since TD may remit, partially or completely
- Hyperglycemia and Diabetes Mellitus Hyperglycemia, in some cases associated with ketoacidosis, coma, or death, has been reported in patients treated with atypical antipsychotics including ABILIFY. Patients with diabetes should be monitored for worsening of glucose control; those with risk factors for diabetes should undergo baseline and periodic fasting blood glucose testing. Patients who develop symptoms of hyperglycemia should also undergo fasting blood glucose testing. There have been few reports of hyperglycemia with ABILIFY

Orthostatic Hypotension – ABILIFY may be associated with orthostatic hypotension and should be used with caution in patients with known cardiovascular disease, cerebrovascular disease, or conditions which would predispose them to hypotension.

Seizures/Convulsions - As with other antipsychotic drugs, ABILIFY should be used with caution in patients with a history of seizures or with conditions that lower the seizure threshold.

Potential for Cognitive and Motor Impairment - Like other antipsychotics, ABILIFY may have the potential to impair judgment, thinking, or motor skills. Patients should not drive or operate hazardous machinery until they are certain ABILIFY does not affect them adversely.

Body Temperature Regulation - Disruption of the body's ability to reduce core body temperature has been attributed to antipsychotics. Appropriate care is advised for patients who may exercise strenuously, be exposed to extreme heat, receive concomitant medication with anticholinergic activity, or be subject to dehydration.

Suicide - The possibility of a suicide attempt is inherent in psychotic illnesses, Bipolar Disorder, and Major Depressive Disorder, and close supervision of high-risk patients should accompany drug therapy. Prescriptions should be written for the smallest quantity consistent with good patient management in order to reduce the risk of overdose.

Dysphagia - Esophageal dysmotility and aspiration have been associated with antipsychotic drug use, including ABILIFY; use caution in patients at risk for aspiration pneumonia.

Physicians should advise patients to avoid alcohol while taking ABILIFY.

Strong CYP3A4 (eg. ketoconazole) or CYP2D6 (eg. fluoxetine) inhibitors will increase ABILIFY drug concentrations; reduce ABILIFY dose by one-half when used concomitantly, except when used as adjunctive treatment with antidepressants in adults with Major Depressive Disorder.

CYP3A4 inducers (eg, carbamazepine) will decrease ABILIFY drug concentrations; double ABILIFY dose when used concomitantly.

Commonly observed adverse reactions (≥5% incidence and at least twice the rate of placebo for ABILIFY vs placebo, respectively):

- Pediatric patients (10 to 17 years) with Bipolar Mania: somnolence (23% vs 3%), extrapyramidal disorder (20% vs 3%), fatigue (11% vs 4%), nausea (11% vs 4%), akathisia (10% vs 296), blurred vision (8% vs 0%), salivary hypersecretion (6% vs 0%), and dizziness (5% vs 1%)
- Pediatric patients (13 to 17 years) with Schizophrenia: extrapyramidal disorder (17% vs 5%), somnolence (16% vs 6%), and tremor (7% vs 2%)

Dystonia is a class effect of antipsychotic drugs. Symptoms of dystonia may occur in susceptible individuals during the first days of treatment and at low doses.

Please see FULL PRESCRIBING INFORMATION, including Boxed WARNINGS, for ABILIFY on the adjacent pages.

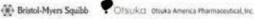
#### References:

- 1. Data on file, Study 31-03-240. Otsuka America Pharmaceutical, Inc. Rockville, MD.
- 2. Data on file, Study 31-03-239. Otsuka America Pharmaceurical, Inc., Rockville, MD.



0308A-1465

# HELP ILLUMINATE THE PERSON WITHIN



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ABILIFY® (aripiprazole) Tablets

ABILIFY DISCMELT® (aripiprazole) Orally Disintegrating Tablets

ABILIFY® (aripiprazole) Oral Solution

Brief Summary of Prescribing Information. For complete prescribing information consult official package insert.

# WARNINGS: INCREASED MORTALITY IN ELDERLY PATIENTS WITH DEMENTIA-RELATED PSYCHOSIS and SUCIDALITY AND ANTIDEPIESSANT DRUGS Elderly patients with dementia-related psychosis treated with antipsychotic drugs are at an increased risk of

R ONLY

Elderly patients with dementia-related psychosis breaded with antipyrchotic drugs are at an increased risk of death. Analyses of percenteen placebe-controlled trials isnodal duration of 10 weeks), largety in patients taking atypical antipyrchotic drugs, revealed a risk of death in drug-treated patients of between 1.6 to 1.7 times the risk of death in placebo-breated patients. Over the course of a typical 10-week controlled trial, the rate of death in drug-treated patients was about 4.5%, compared to a rate of about 2.2% in the placebo group. Although the causes of death vere varieties, must of the deaths appearand to be either cardiovasculur (eg, best failure, sudden death) or infectious (eg, pneumonia) in nature. Observational studies suggest that, similar to atypical antipyrchetic drugs, treatment with conventional antipyrchetic drugs may increase mortality risk antipyrchetic drugs may increase mortality risk antipyrchetic drugs may increase mortality risk to the treatment of patients with dementia-related psycholal (see Namings and Precaudious).

Antidepressants increased the risk compared to placebo of suicidal thinking and behavior (suicidality) in children, adolescents, and young adults in abon-term studies of flagic Opersaive Disorder (MOD) and other psychiatric disorders. Anyone considering the use of adjunctive ABILIFY or any other antidepressant in a child adolescent, or young adults in short-term studies of the one. Short-term studies of the one short psychiatric disorders are themselves associated with increases in the risk of suicidality with antidepressants compared to placebo in adults beyond age 24; there was a reduction in risk with artidepressants compared to placebo in adults aged 65 and older. Depression and catallation of the psychiatric disorders are themselves associated with increases in the risk of suicide. Patients of all ages who are started on antidepressants towarders in the risk of suicided patients of the need for close observation and catallation with the prescriber. ABILIFY is n

NOCATIONS AND USAGE Schizophymia - ASI, PF is indicated for acute and transference treatment of fichusphymia in adolescents 11 to 17 years of ago has Clinical Scales (4.1) in Put Prescribing International.

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Bigolar Disorder - ASULPH is indicated for acute and maintenance triument of mains and mixed existeds associated with Bigolar Disorder with or without psychotic features in present partners and to 17 years of age (see Clinical Studies (14.2) in Fluit Prescribing Information).

CONTRAINDICATIONS: Known Representativity reaction to ASULPH Reactions have ranged from printing/uniques to anaphylaxis (see Adverse

WILLIAMINES AND PRECAUTIONS: Use in Edenly Patients with Dementia-Related Psychiatis - Increased Mortality: Edenly patients with dementia-related psychosis treated with entipsychotic drugs are at an increased risk of death, ABILEY is not approved for the beatherest of patients with dementia-related psychosis (see Soned Warring).

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Consideration should be given to changing the thirspector regimen, including possibly discontinuing the medication, in patients whose depression is passistarily worse, or while are endoneding energiate functionally or improfitm that incight be precision to worselving depression of successify the expectation to worselving depression of successify the expectation that energy improfitms are energy interesting programs.

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Families and correported of patients being treated with antidepressants for Major Depressor Blooder or other indications, both populations and congregorisation, should be alrested about the report a monitor upsilents for the entergence of againstine, instability, unusual changes in behavior, and the other symptoms described above, as well as the emergence of suicidality, and to report such symptoms immediately to healthcase providers. Such monitoring about alrested daily observation by termines and caregivers. Prescription to ASULT's should be written for the manager quantity of before consultent are operationed upsilent angelines. Before the selection of societies. Screening Patients for Begote Observier. A ways depression provide will be a related present all societies of the ASULT's should be alrested and alrested and the selection of providers and accordance and the selection of providers and observed and the selection of providers and accordance and accor

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The management of NMS should include: 1) immediate documentation of antipolythotic drugs and other drugs not assential to or informer: purporation treatment and medical involving and 10 instituted of any conconstant setting an educal profession in which specific treatments are available. These is no general agreement about specific pharmocological treatment regimens for uncomplicated MMS. If a patient requires and equipment of any profession and an education of drug thereby should be carefully inclinated an environment of MMS. The potential involvations of drug thereby should be carefully considered. The patient should be carefully inclinated, about incommonce of MMS times been reported. Turder Dyskinesia - A syndrone of potentially innerestile, invisoritary, dysknetic movements may diversip in patients treated with artispychotic stags. Although the previence of the syndrome appears to be highest among the eatenty elderly extreatly women, it as impossible to rely-upon provience estimates to predict, of the inception of antipopolatic treatment, which patients are likely to develop the syndrome Weether antipopolatic. nut tenducts differ in their adential to cause before dynamics is unknown.

and products once or over operand to cause arrangements in uncover.

The role of developing factive diplanets and the likelihood that it will become interested and believed to increase as the duration of treatment and the total cumulative dose of adjustance dough administrated to the potent normals. However, the syndrome can develop, although much less commonly, after relatively bent treatment or dose of a total cumulative dose of administrative development, after relative to completely of an exposure may rend, pushally or comprishly, if an disputative the windows development to established cause of state diplanets and applicative may rend, pushally or comprishly of administrative development and applicative and the render that operations are development of the large term course of the syndrome is unknown.

Given these considerations, ABILPY (arpiprocesie) should be prescribed in a manner that is most likely to minimize the occurrence of tardive diskinesse Gains their considerations. ABLEP' deportures induct be prescribed in a manner that is not selly to immind the occurrence of stroke objects of control. Ablances the control of stroke objects the control of the control of stroke objects to another than a chronic immind the stroke that is not sellable or appropriate in patients who does not only and off the whom attempted does not the strokes duration of teaching because of the strokes that is not sellable or appropriate, in patients who do require chronic treatment, the strokes does not the strokes duration of the stroke duration assistance or appropriate interest that the receipt or controlled the strokes of production of the stroke objects of totally objects appear or a patient or ABLEF, drug discontinuation should be considered. However, some patients may require the attention with ABLEFY despite the presence of the syndrome.

discontinuation should be considered. However, some patents may require beathern with ARILFY designs the presence of the syndrone, Meyerphycenia and Diabetes Mellina. Incorpriguous, in some cases externs and associated with vistociation or hypersonivarior come or drawful, had been recorded in patients tristed with stipical anticipichotics. These have been few records of injourquicines in patients tristed with 48ULFY (year Advance Reactions), Africaugh have patients in that both installed with ARILFY, it is not known if this lives now immade operations in the seasons of the reactionship between alphacial anticipichotics, as and public as and public advances abnormalisties is compositively the operations of an inclinated background risk of backets melitar in a patients with some populations. Blass in these confusionists, the restationable between alphacial anticipichotic use and hypersylvenian selected advances extend as not competitive or an advance event in a patient to a for competitive or an advance event in patients to the competitive or an advanced or the state of the competitive or advanced and the state of the s events in patients treated with alypical antipsycholics are not available.

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with ABLEF does not affect them advicably.

Body Temperature Regulation - Character of the body's shifty to reduce core body temperature Regulation - Character of the body's shifty to reduce core body temperature has been attributed to artispsycholic agents. posite care is advised when prescribing amplicable for patients who will be reperiencing conditions which may contribute to an elevation in body temperature (e.g. exercising strenuously, expesses to extreme heat, receiving concentrant medication with anticholinerpic activity, or being of to persponsive (see Adverse Reactions).

suges to extractions for America reduced in interest in practical diseases. Blocks Disorder, and Major Depression Disorder, and observations of Ingo-to-is posterior strongly accompany strong freeze-pricing by ASLEP's should be written for the smallest quantity considers with good patient management in order to reduce the state of coverables (see Adverse Resociated).

\*\*Dysphagia" - Supplyagia Capitality, and aspiration from several state authority advantage of the supply of

mm ususe of mostady and mortally in elderly patients, in particular Toole with absanced Authenne's dementa, Arppraistle and other syntholic drups should be used cautiously in patients at risk for asymption preumonal jusé Wartings and Precautions and Advense Reactional. Use in Patients with Concentant Wiless - Cinical expenses with ARLEY in patients with certain concentant systems (invested is limited (see Use in Specific Paculations). ARLEY has not been evaluated or used to any appreciable elect in patients with a recent history of imporatioal inflations or unstable heard dealers. Patients with these diagnoses were excluded from premarketing clinical studies (see Warnings and Precoudors).

AUVESCE REACTIONS: Overall Adverse Reactions Profile — The tollowing are discussed in more detail in other sections of the Monthing face Round Marrings and Marrings and Principles of the Tollowing face Round Marrings and Procusions (See in Solide Round Marrings and Monthing French Marrings of Department and Sounder Round Marrings (See Institute Operation and Sounder Rounds on Marrings and Monthing Operations (Security Security Secu

Frameta for Cognitive and whose implainment, adoly temporature requirement, sporce, up or an influence incomment where a The most comment adverse resolutions in the perfective clinical failat, (a 10%) were summative, or enhancemental describt healthcalls and massive. Anoproxise has been evaluated for safety in 514 pointers in 10 to 17 years) who participated in multiple-dose, clinical than in Schapphrenia or Boolar Manis and who had approximately 20% patiently-want of exocure to only anoproxise. A folial of 21% pediatric patients were treated with oral anopproxise for all each filld days. Because clinical trials are conducted under workly valying conditions, adverted reaction ratios observed in the clinical trials of a drug cannot be directly compared to calls in the clinical trials of acotter drug and thay not reflect the ratio observed in prociose. Chinical Studies Experience - Pediatric Patients (13 to 17 years) with Schizophrenia: The following findings are based on one 6-week placeto-

controlled trail in which are amounted was administered in dose impropriation 2 implicitly to 3.3 register. Afterow Reactions Associated with Discontinuation of Treatment The incolorus of discontinuation than It treated and placetor-freedom pediatric patients (13 to 17 years) was 5% and 2%, respectively.

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Pediatric Patients (10 to 17 years) with Bipolar Maniat: The following findings are based on one 4 week placebo-controlled trail in which one

anoporable into administration obtaind follogists or 30 impolay. Afterse Anactions Associated with Discontinuation of Prostment The incidence of discontinuation due to adverse reactions between appropriet treated and placetic treated pediatric patients (10 to 17 years) was 7% and 2%, respectively.

Community Discrived Adverse Reactions Commonly observed adverse reactions associated with the use of angiographic in pediatric patients with tipode Manus after successive and at least have the rate of placeto for PALEPT or placeto capopousite in 197, placeto—371, respectively weets controlleron (27% or 27%), exhapped patients discorder (27% or 27%), before (17% or 47%), number (17% or 47%), and placeto (17% or 47%), number (17% or 47%), and placetos (17% or 47%), number (17% or 47%).

#### Less Common Adverse Reactions in Pediatric Patients (10 to 17 years) with Schizophrenia or Bipolar Mania

The billowing treatment emerged reactions reported in polluting policies of an excision of a 1%, reunded to the neutral person, with originated observed an explaint policy of the excision of a 1%, reunded to the neutral person, with proposable their with placetic during short some just to 6 seeks in 5 disciplination and up to 4 seeks in 5 disciplination and up to 6 seeks

One-Related Adverse Reactions - Schlapphensis: in the study of pediatric patients (13 to 17 years of age) with Schozophresia, there cannot adverse reactions a geometric hard a gestable date reported in the study of pediatric patients (13 to 17 years of age) with Schozophresia, there cannot adverse reactions age patient for the propose relationship entraperantial disorder invodences were placebo. 50%. 10 mg, 13.0%, 30 mg, 21.6% can better invodences were placebo. 50% for mg, 11.0%, 30 mg, 21.6% can better invodences were placebo. 50% for mg, 13.0%, 30 mg, 21.6%. 20% with Spotor Mannic that convents adverse marketing and a possible doze reactions entertool to the propose entertool placebox and proposed enterto placebox of the proposed entertool placebox and proposed entertool placebox entertool placebo

not show a difference between propriative and placetor, with the exception of the Sempson Angue Rating Scale corporative, 0.24, placetor, 4.246. in the pediatric (10 in 17 years) short term Spoke Mans trut, the Singson Arque Rating Scale showed a significant ofference between anoprassis and placeto carophrassis. (130) placeto. (101) Changes in the Barrier Akathesa Scale and the Assessments of thioluntary Movement Scales were ar for the proporative and placetic groups

Dystonia Class Effect Symptoms of dystonia, prolonged abnormal contractions of musicle groups, may occur in suscicitive first text days of treatment. Dystonic symptoms include signam of the resix mascles, summeries progressing to biptress of the broat, available, and or protection of the broat. While these symptoms can occur at less doses, they occur more trequestly and with greater severily with high potency and at higher doses of first generation anappychotic drugs. An elevation is a studie dystonia is observed in makes

Laborator, Pert Abnormalities: A between group comparison for 4-week to 5-week, placete-controlled basis in pecialisis publicitis (10 to 17 years newseed on medically important differences between the simportance and placeted prosps in the proportions of patients, expeniencing publicities clinically significant changes in modelle serum chemistry, hermatology, or undeploy participles, for their these ween no uniquipositisticals differences in the incollerum of discontinuations for changes or price of entire publicities. eyer for 4 work to 6 week injureto-controlled trult in pediatric patients (10 to 17 years)

Weight Gain; in a lewest test in pecuative potents (13 to 17 years) with Schopphyrian, there was a slight difference in mean weight gain between appearable and pixels pathetics. If a lewest appearable and pixels pathetics in the proportion of pethods meeting is weight gain collection. of a T% of body weight furgocopole (5%) compared to placebo (1%)

or at the dody wingst proposed enteringuists to packet with the control of Argipprazole Fellowing in a list of MedDRA terms that relied alvenee inactions as defined in Advence Practicion recorded by patients heard with ord altophastic at multiple down so "prograp during any phase of heard within the distance of 13,545 abut, patients, and arranged entering a record or process and the distance of 13,545 abut, patients, and arranged and Precautions Armough the mactions recorded cocumed during treatment with programme.

Pediatric Patients: Oral Administration - Most adverse events observed in the pooled distribute of 514 pediatric patients aged 10 to 17 years were

into stormed in the shift population. Additional schemes reactions observed on the pecatric population are listed below.

Gardionnessinal Disorders: a 1/1000 patients and 1/1000 patients - tongue dry, trouge spears: investigations is 1/1000 patients - blood insulin
increased: Renoun System Disorders: a 1/1000 patients and 1/1000 patients - over taking. Sen and Subcutaneous Tissue Disorders: a 1/1000 patients - over taking. Sen and Subcutaneous Tissue Disorders: a 1/1000 patients. ets aret a 1/7/00 patients - ligrarter

Pustmarketing Experience - The following adverse reactions have been distribled during post-approval use of ABILEY compa am reported voluntarily from a population of uncertain size. If is not always possible to establish a causal intationality to drug reposum nom on of allenge, muchon (assignificate reaction, arquedestra, laryngospasm, pruntus/unticara, or constrany/geal spasmi, and blood plucose

SRUG INTERACTIONS: Given the primary CNS effects of angioragnie, caution should be used when ABILEY is taken in or strups or alcohol. Due to its alpha advenergic artagonism, andigrazzile has the potential to enhance the effect of certain

Potential for Other Drugs to Affect ABILIFY - Angonazole is not a substrate of CYP1A1, CYP1A2, CYP2A6, CYP266, CYP2C6, CYP2C6, CYP2C19, or

Petersia for other Orago is Affect ABLEY - Approace is not a superior of CHIAI, OFFICE, OFFICE

argographic elementaria and cause increased blood feets.

Referenceable and Other CYPSA4 inhibitors: Coadministration of Astoconazole (200 imputing for 14 disags with a 15 mg single dose of amporazole increased the ASE of appropriate and this active metabolide by 65% and 77%, respectively. The effect of a higher Netoconazole dose (400 implicits has not been studied. When Netoconazole in given concernitarity with appropriate base insurate body and to the half of its fromtal dose, other strong inhibitors of CYPSA4 inhibitor is withdrawn from the combination therapy, the appropriate doses.

should be increased.

Outsides and Other CRP206 inhibiture. Condementation of a 10 mg single dose of proparatile with quantities (fill implicitly for 13 days), a potent entities of CP206, increased the ALC of disponance by 112% but decreased the ALC of its active metabolite, deligible-anappraise, by 25%. Appearance dose should be reduced to one-field of the normal dose when quantities in given concombantly with approache. Other regulator in inflation in CP2056, such a fluxeation to procedure, would be expected to himse which and should sed to similar drive mortalisms. When the CP206 is should be increased.

emplare is well-assert man the commission pressure the appropriate some should be exclusive.

Charanaspine and Other CYPAM inducers: Colorination of continuements (200 mg halor daily, a power CYPAM inducer, with anoparation (200 mg/day) mailted in an appropriate XVIII decrease in C<sub>mail</sub> and AUC values of both anoparation and its active mentiopalit, delegation internative primarities and the support and international mention and the surface and international mention and the continuement mention and international mention and internat

Polarisal in ABLEY to Affect Other Drugs - Accorative is unlikely to cause clinically important pharmacolimetic interactions with drugs, mistabilised by opticioner PRO enzymes, in a sea diades, 10 mystaly to 20 mystaly obser of announced translation (CPCO) handward, CPCOO handward, and CPCOO handward, and CPCOO handward, CPCOO handward, CPCOO handward, and CPCOO handward,

Alcohol: There was no significant difference between asppractic coadministered with ethanol and pracebo coadm rance of gross motor skills or microsian response in healthy subjects. As with most psychoactive medications, patients should be advised to

Orugs Having No Clinically Important Interactions with ABILIFY - Famolitine. Conditions af appointing open in a single dose of 15 with a 40 mg stope date of the H<sub>1</sub> antiquized functioner, a patient gastor, and blocker decreased the suitability of arigographs and hence, to rate of absorption reducing by 37% and 21% the C<sub>100</sub> of propriative and orbital arigographs, respectively, and by 12% and 15%, respectively. This softent of absorption AUCs for disease adjustment of propriative is required when administered concumulately with flaministics.

Valproste: When valproste (500 mg/day 1900) implicity) and amportable (100 ng/day) were conditionalised, at steady-state the C<sub>ross</sub> and AUC of amportable were decreased by 25%. No drossy adjustment of amportable is required when administered concomitantly with sulprostal. When amportable (301 ng/day) and valproste (1000 ng/day) were conditionalises, at steady-state there were no clinically significant changes in the

or ACC of valgroute. No desage adjustment of valgroute is required when administered concumitantly with arbiprosse

Lithium: A promocedantic elevacioni of approache with thom is unlevely because thours or not bound to pleams prosess, as not metabolism and in almost enterly experied profunged in unine. Continuentation of therapeutic does of fifther (1200 mydday 1000 mydday) for 21 days with amplicative once convolutions and result in clinicity septiment charges in the pharmacolonists of arguments of the active metabolite. Only on-emporative K...., and ALC increased by less than 20%. No droage adjustment of empiracile in required when administered concentratily with littles (900 migrate) did not result in clinically septiment charges in the pharmacolonistics of inframe.

To dough advotrom of littlem is required when administered concentrativ with appointed

No casey adjustment of enturn is required areas nationalistic constancing with adjustance.

Lambrighne Condiminations on 16 inguitary to 30 inguitary and obesid in proposocie for 14 days to patients with Dipose 1 Disorder had no effect on the stoody state pharmacelements of 100 inguitary to 400 inguitary teachingnis. In UPP-glocuroscopythandrinate 1A4 substatic No dosage adjustment of lambrighnis in equal when implications added to familiaria.

Destandershoughted Arcipicación all diseas of 10 inguitary to 30 inguitary for 14 days had no effect on destandersorphism 3 0-destavation to 45 investors in pathway dependent on 10/9206 actually Arcipicación also in fact to effect on destandersorphism in 16-denetystation to 45 investors.

The additional of the additional of the actual d concomitantly with amplipment

Warturier Arjographie 10 molitary for 14 days had no effect on the pharmacokinetics of R-wartann and S-wartann or on the pharmacokinetics of R-wartann and S-wartann or on the pharmacokinetics. control international Normalized Relia, indicating the lack of a chically relevant effect of asponsable on CYP2C9 and CYP2C9 impossions or the bedding of highly protein-bound waferin. No disagge adjustment of numbers is required when administered concernating with adaptivative. Conspiration: Approach 10 migriday for 15 days had an effect on the pharmacisknetics of a single 20 mg dose of universable, a CYP2C19 substitute.

Gregorable: Acoption to Trajects or 15 days had so elect on the promision rection in a larger project or or opposition. In 17 or 19 contract, the first project of the proposition of the program of the proposition of the project of

Section was give many and recovered.

Establishment Cooperational or implicitly and loses of applicative for 14 days to healthy subjects had no affect on the standy-state pharmaco-lovetes of 10 regions establishment as between of Exp2019 and DR9244. No damage adjustment of excitatopiam is required when aroppracie is added to escitalogram.

Westatorine: Condeminatorino of 10 registry to 20 registry unil down of angipransile for 14 days to healthy subjects had no effect on the attody-state pharmacokinetics of vestallarine and 0-descriptive vertical registry vertical are XPL a CYPZOR substitute. No design adjustment of vestatorine of required when proportically is added to verticalize.

versioner is required view propriative is about to remission change in patients with Major Decreasive Disorder showed no substitution change in plants concentration of fluoretime (25 mighting in residence (25 mighting in residence) in plants concentration of fluoretime (25 mighting in residence) in plants caused to standy-table. The shady-table plasma concentrations of fluoretime and confluoretime increased by about 25% and \$5 mighting and concentrations of parameters of substitution of parameters decreased by about 25%. The sheady-state plasma concentrations of perturbate and decreased by about 25%. The sheady-state plasma concentrations of perturbate and desired systems were not substantially shanged when these attributes severe confluencement with propriative desired and several systems are not substantially shanged when these attributes are for adjusted to 20 mighting system given with fluoretime or amustine or 2 mighting to 20 mighting system given with fluoretime or parameters or 2 mighting to 20 mighting system given with fluoretime or amustine or 2 mighting to 20 mighting system given with fluoretime or parameters or 2 mighting to 20 mighting system given with fluoretime.

USE IN SPECIFIC POPULATIONS: in general, no dough educatives for ASILEY (propriately in required on the base of a pulset's age, gender, take employ labels, negate function for mind function like bloscy and Astronomous (2.5 in Full Prescriping Information).

Prognancy Category C. There are no adequate and well-controlled studies in prognant season. Apparatule stood if the optimal benefit quiseges the potential risk to the lesse. In animal studies, aroppractic demonstrated develop ant women. Are provide should be used during pregnancy only propole demonstrated developmental training including possible enc effects in role and rightly

Labor and Delivery - The effect of anjourable on labor and delivery in humans is unknown

Nursing Mothers - Arponance, was exceed in milk of refs during lactation. It is not known whether propriate or its metabolites are exceed it human milk. It is recommended that women receiving propriates should not breast feed.

Pediatric Use - Safety and effectiveness in pediatric patients with Wage Terpressive Disorder or systeken associated with Schoopheelia or Booker

Mana ratio not on escalarios.

Safety and effectiveness in pediatric patients with Scharghinnian were established in a Eventi, plainto-cardioled clinical trial in 202 pediatric patients aged 13 to 17 years [see noticetor and diago. Disago and Administration of 1), in Full Prescribing Informative, Advised Resolution, and Clinical Studies (4 if this Full Prescribing Information), Administration efficacy in pediatric patients has not been systematically extensive information and management efficacy can be established from solid state along with comparisons of antisportable phramadomiest, patients and solid state along with comparisons of antisportable phramadomiest, patients. periative patients.

present potents.
Stifty and effectivemen in productic politients with Bipolar Mania were established in a 4-week, placebo-controlled clinical that in 197 podestic politients aged 10 to 17 years (see indications and Marge, Bousge and Administration (2.2) in Hail Prescribing Information, Adverse Reactions, and Clinical Studied (14.2) in Hail Prescribing Information, Adverse Reactions, and Clinical Studied (14.2) in Hail Prescribing Information (Arthroph manhounce efficacy to predictive patients have not been systematically estituted, manhounce of manhounce efficacy on predictive patients and and data along with complication of any proposally grammatically patients patients.

The efficacy of advention ATM FY with concentrate lithours or submixth in the treatment of manuals made equation in perhatic patients has not been The minute of approximation of the efficacy and tack of pharmaceirate interaction between adoptaces and filliam for valurable can be enhanced from the efficacy and conceasions of arguments between the pharmaceirate parameters in adult and pediatric patients. The pharmaceirates of arguments and delaydro-arguments in pediatric patients, 10 to 17 years of age were smiler to those in adults after correcting for the differences in body weights.

Gentative like - In termal single-down pharmacularistic studies (with anoprazine given in a single-down of 15 mg, propriative destrance with 20% lower in eldony (e.65 years adjects compared by power adult subjects (18 to 64 years. Ass. the pharmacologistic of anoprazine after multiple downs in eldony potents accessed similar to that observed in years, healthy subjects. No disage adjustment is recommended for elderly puberts (see also showd tilaming) and información and info

Of the 13.54) patients treated with one proporative in clinical train, 1073 (8%) were will yours old and 799 (6%) were with years old. The inaporty (\$1%) of the 1073 patients were diagnosed with Dementia of the Aldheimen's type.

Placeto-combolled studies of onal artiporazole in Schoopherina or Benian Mores shit not include sufficient numbers of subjects aged 65 and over to determine whether they respond differently from younger subjects.

of the 745 patients treated with anoporable rejection in clinical trush, 95 (17%) were with years old and 76 (10%) were w75 years old. Placebo-controlled dudges of anoporable injection in patients with adultion associated with Schapphress or Spoke Manu dat and include sufficient numbers of subsects aged 65 and over to determine whether they respond differently from younger subjects.

Read Impairment - In patients with severe renal impairment (creatment desaurce - 30 mill,men), C<sub>im</sub> of uniperacels igners as a single date of 15 mg and dehydro-importable increased by 37% misoenthely but AUC was 15% lower for proproade and 7% higher for display-importable. Renal exembles of both unchanged aripproade and dehydro-importable is less than 1% of the date. No datage adjustment is required.

Repairs Impairment - In a single-clase study (15 mg of arigoproces) in subjects with valying degrees of liver combines (Chick-Pugh Classes A, B, and CL. the AVC of angiographic companie to healthy subjects, included 31% in midd H, increased 8% in moderate Hs, and decreated 27% in severe H. None of these differences would require door adjustment.

Gender - C<sub>lim</sub> and ALC of experience and its active metabolis, delycer-aspparatile, are 30% to 40% toper in women than in men, and correspondings, the apparation of destrate of apparation is lower in women. These differences, however, are largely explained by differences in body weight (20%) between men and women. No design adjustment is recommended based on gender.

Race - Amough no specific pharmacolimete study was conducted to investigate the effects of race on the deposition of aniporacial, population pharmacolimete evaluation revisition of evidence of clinically significant race-related differences in the pharmacolimeters of aniporacial. No design adjustment as recommended based on race.

Smoking - Based on studies station from their engines in who, propriative to not a substitute for CHPIA2 and also does not undergo direct.

Shoutanablation. Smoking about theirbox, not have an effect on the pharmacokinetics of propriates. Consistent with three in who results,
propolation promocokinetic evaluation did not revisal any significant pharmacokinetic offerences between smokers and nontrickers. No dosage

DRUG ABUSE AND DEPENDENCE ARLEY is not a controlled substance

Asses and Dependence - Approprie train to been explanationly studied in humans for its potential for above, tolerance, or physical dependence. While the clinical trains did not reveal any tendency for any drug-seeing behavior, it is not possible to predict on the basis of this limited expendence the external twinds and So other drug will be research, dwinfed, indice above dione marketist. Patients should be extracted carefully for a history of originate and doesn't observed for ages of ASE\_FFI mission or above.

ong some and cosely observed on 1909 of ARUP + mission or anotic.

ONERDOSAGE, 76 cross of deliberation or accident overthously with oast adopticable above or in combination with other substances were reported verstissed. Et access with known outcome, 33 recovered without requeller and one recovered with sequeller (mydisass) and freeing abcommally. Adabbandly, 10 of these cases were in children sign. Et and processor improvement improvement with sequeller (mydisass) and freeing abcommally. Adabbandly, 10 of these cases were in children sign. Et and processor (communication) and improvement and in the common sign of the processor of the case of the sequence of the case of the sequence of the case of the ca overdose, see Full Prescribing Information.

overcose, set the mechanical momentum.

Management of benchmage. No questic information is available on the treatment of overcose with anophractile. An electrocarticopism should be changed in case of previous and of 01 information properties in present, cardiac monitoring should be installable. Discovers, management of overtone should concentrate on approximate the respective therapy, management and expective and verticates and entitleton, and management of symptoms. Once excise a particular and management of symptoms. Once excicat supervision and management of symptoms. Once excicat supervision and management of symptoms. Once excise a new contract of the contr

PATIONT COUNCELING INFORMATION: Information for Potients, Physicians are advised to discuss the following issues with patients for whom they prescribe ABUFF: [See Neclection Guide (17.2) in Pati Prescribing Information]
Increased Mortality in Elderly Patients with Dementia-Related Psychosia - Alview publishs and caregivers of increased nak of death

Collectal Worsening of Depression and Solicide Rick - Alen termies and conserves of patients to monitor for the emergence of agitation, imbability, unusual change in tell-level, succluding, and other symptoms as described in Worsenin, and the report such symptoms immediately. Advise patients, and their families and correprient to read the Mydication Gode and asset them in understanding to contents (less Worsenin and

Interference with Cognitive and Motor Performance - Secouse projective may have the potential to impair judgment, trinking, or motor skills. where should be calcured about coeraby facultous hackney, including automobies, until they are recorably certain that expertable through any not effect from adversely jeer Mantags and Procadoral.

Preparaty - Patents should be advised to notify their physician if they become preparat or intend to become program during therapy with ABILEY [see like in Specific Payadolonis].

Nursing - Patients should be advised not to breast-feed an intent if they are taking ASK, FY (see Use in Specific Populations).

Concornitant Medication - Patients should be advised to inform their physicisms if they are taking, or plan to take, any prescription or over-theunier druis, since there is a potential for interactions (see Drug interactions).

Alcohol - Patients should be advised to avoid alcohol while taking ABILEY (see Drug Interactions)

Heat Exposure and Dehydration - Patients should be school regurding appropriate care in avoiding overheating and dehydration [see Warnings

Sugar Content - Patients should be advised that each mil. of ASIL FY that Solution contains 400 mg of sucrase and 200 mg of fructions

PhonyRechneries - Promplainmer is a component of aspartance Each ABLEY DISCMELT Orany Desirtegrating Tablet contains the following amounts 10 mg - 1-12 mg phonylatanine and 15 mg - 1 88 mg phonylatanine.

Teletes manufactured by Ottuka Promozendout Dr. 154, 16tps. 107-6535, Japan or Brutti-Myers South Company, Princeton, NJ 16543 USA Orally Destringation, Teletes, Oral Southor, and Injection manufactured by Brutti-Myers South Company, Princeton, NJ 16543 USA Distributed and marketed by Ottoka America Pharmacouthol, Inc. Rockette, MD 20651 USA Marketed by British Myers South Company, Princeton, NJ 16543 USA US Patent Nos. 5.006:528: 6:977:257: and 7.115.587





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# PSYCHIATRY

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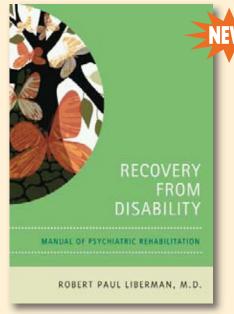
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# **Recovery From Disability**

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Robert Paul Liberman, M.D.

With Foreword by John A. Talbott, M.D.

Recovery From Disability draws on Dr. Robert Paul Liberman's 40 years of designing, testing, and disseminating innovative treatments for persons with mental health disabilities. The author addresses the real challenges faced by practitioners who must wrestle with the individualized needs of each patient in drawing up a rehabilitation roadmap to recovery. Illuminating up-to-date treatment techniques that reflect a consensus of experts regarding evidence-based practices, Dr. Liberman shows how recovery can be the rule rather than the exception.

Written in a down-to-earth manner with minimal jargon, this clinical manual is intended for everyday use. Each chapter contains information, techniques, and treatment methods that enable clinicians to:

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- Teach patients how to stabilize their symptoms and cognitive impairments
- Train patients in social and independent living skills for empowerment and autonomy
- Educate family members and other caregivers to collaborate with mental health professionals in overcoming their loved one's disability
- Provide access to vocational rehabilitation, including supported employment
- Facilitate comprehensiveness, continuity, and coordination of competency-based rehabilitation, using personal support specialists, assertive community treatment, and integrated mental health care

The book is relevant to the work of all mental health disciplines, administrators, consumer advocates, and clinicians with all levels of experience. Practice-based evidence is highlighted by an abundance of real-life examples and a host of graphic aids. The author addresses the particular needs of Latino patients and takes up the latest developments in rehabilitation, such as illness management, social and independent living skills training, neurocognitive pharmacology, cognitive remediation, and use of computers in rehabilitation.

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Assistant/ Associate Professor or rank comm. with experience (Attending Physician for Inpatient Teaching Unit). The Department of Psychiatry at the University of Illinois (Chicago Campus) is actively seeking applications from dynamic, academically-oriented clinician educators for the position of inpatient attending physician.

This is a tenured or non-tenured full-time position on our teacher educator track that will include direct patient care and supervision of residents on an active specialty-oriented inpatient unit, as well as limited outpatient clinical practice.

The successful candidate will have a demonstrated track record or interest in teaching residents and medical students as well as treating/managing acutely ill patients in an inpatient clinical milieu. Interest in mood and anxiety disorders, psychotic disorders, geriatrics, neuropsychiatry or general psychiatry are all areas that will fit into our current team structure.

Candidates should be Board Certified or Eligible in Psychiatry. The successful candidate will be appointed as a faculty member of the Dept of Psychiatry, College of Medicine. Rank and salary commensurate with qualifications and experience.

Please submit your CV and all contact information along with four letters of recommendation by 12/15/08 to:

Ena Casas
Department of Psychiatry
University of Illinois
1601 W. Taylor Street
Chicago, Illinois 60612.
E-mail: ecasas@psych.uic.edu

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E-mail: albee.beth@marshfieldclinic.org Website: www.marshfieldclinic.org/recruit



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New York Methodist is a 622-bed voluntary, acute care teaching institution located in Park Slope, Brooklyn, that provides a wide variety of specialized inpatient and outpatient services. We are currently seeking a Staff Psychiatrist to join our team. Candidate must be licensed in the state of New York and be Board Certified/Board Eligible.

Please send cover letter and curriculum vitae to: New York Methodist Hospital, Human Resources Department, 506 Sixth Street, Brooklyn, NY 11215. Fax: 718-965-3672. Email: dah9013@nyp.org. EOE M/F/D/V.



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# **GENERAL PSYCHIATRY**

CHICAGC

The Department of Psychiatry at **Rush University Medical Center** is seeking a board eligible/board certified general psychiatrist. This position offers clinical work, anticipating an equal balance of inpatient and outpatient settings. This position will enjoy a Faculty Appointment. Duties will include teaching of medical student along with supervising of residents in the Rush Medical College.

This physician would be expected to attend grand rounds and other departmental meetings as well. Excellent candidates will present a desire to be knowledgeable about the latest treatments of major psychiatric disorders. Opportunities for future research and/or other academic endeavors are possible, beginning with a focus on clinical study.

Rush University Medical Center is an academic medical center that encompasses a 618-bed hospital serving adults and children, the 58-bed Johnston R. Bowman Health Center and Rush University. Rush University is home to one of the first medical colleges in the Midwest and one of the nation's top-ranked nursing colleges, as well as graduate programs in allied health, health systems management and biomedical research. The Medical Center also offers more than 70 highly selective residency and fellowship programs in medical and surgical specialties and subspecialties.

**Rush** is consistently ranked among the nation's top hospitals by U.S. News & World report and has been named among the top five academic medical centers in the country by University HealthSystem Consortium in its annual quality and accountability performance ranking. These accomplishments reflect Rush's ongoing commitment to providing unparalleled care by working collaboratively to pool knowledge and exchange opinions based on expertise and experience.

We will begin accepting applications immediately. Rush is an equal opportunity employer.

Contact:
William A. Scheftner, M.D.
Chair, Department of Psychiatry
Rush University Medical Center
william\_a\_scheftner@rush.edu



# ENDOWED PROFESSORSHIP IN ADDICTION PSYCHIATRY

The Department of Psychiatry at the Indiana University School of Medicine is pleased to announce a new opening for a Full Professor (tenure or clinical track based on qualifications) to develop a comprehensive clinical, educational, and research program in Addiction Psychiatry and related disorders. The candidate should be Board Certified in Addiction Psychiatry and/or certified in Addiction Medicine.

This endowed position will provide direct support to the Indiana Department of Mental Health and Addiction in developing a Gambling Treatment Program; will provide clinical, education, and research support at Midtown Community Mental Health Center; and will also be head of the Addiction Psychiatry Fellowship Program within the Department of Psychiatry. The Midtown Community Mental Health Center addictions program includes adult outpatient services, intensive outpatient, outpatient detox, housing services for expectant mothers and newly parenting mothers, narcotics treatment program, and research programs under NIDA and SAMHSA.

The Department of Psychiatry has a broad research, clinical, and teaching mission and maintains both a clinical psychology internship and psychiatry residency program, in addition to training rotations for medical students. The department and the university place a high priority on creating a diverse learning environment and on supporting the professional development of ethnic minorities, women, and people with disabilities. Applications are encouraged from professionals of all ethnic backgrounds.

Located in Indianapolis, Indiana University School of Medicine is the second largest medical school in the United States, with a student body that includes over 47% women and 21% ethnic minorities. Indianapolis is the 12th largest metropolitan area and has the 16th largest African-American population in the United States. Position offers competitive salary commensurate with experience. Interested applicants should send their curriculum vitae, six letters of reference, and statement of clinical, teaching, and research interests to:

Christopher J. McDougle, M.D.
Albert E. Sterne Professor and Chairman
Department of Psychiatry
Indiana University School of Medicine
1111 W. 10th Street, PB A305
Indianapolis, IN 46202-4800

THE DEPARTMENTAL WEBSITE IS LOCATED AT HTTP://WWW.IUPUI.EDU/~PSYCH/.

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# Medical Director Behavioral Health Services

Kings County Hospital Center is the major teaching affiliate for SUNY Downstate Medical Center, NYC's only public medical school. The Behavioral Health Division has over 200 adult and child/adolescent inpatient beds, detoxification services, a Comprehensive Emergency Services Program, outpatient adult and child/adolescent mental health and chemical dependency services and an ACT and MCT Program.

As part of our continued commitment to the future of Psychiatry in Brooklyn, we continue to enhance, expand and reorganize our services as we prepare to move into a new \$150M state-of-the-art building.

We seek a Board Certified Psychiatrist to serve as the Director of Behavioral Health Services. This position is accompanied by a SUNY academic appointment.

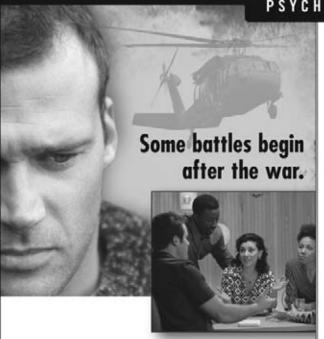
Candidates must have at least 5 years of administrative and managerial experience, be committed to patient care and interested in teaching.

Please email your resume to Lois Sacks: LSacks@ppasearch.com • Ph: (914) 251-1000

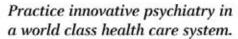
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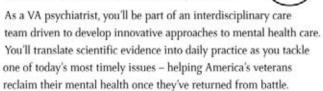
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Email: jamiesi@aspirus.org www.aspirus.org

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#### DEPARTMENT OF MENTAL HEALTH SERVICES

Scott & White and Texas A&M College of Medicine are seeking outstanding BC/BE individuals for the positions of Psychiatric Clinicians and Hospitalists within the Department of Mental Health Services at our main campus in Temple, TX. Candidates for this position should have strong credentials in clinical care and education, with inpatient psychiatric patient care experience. Academic responsibilities will include opportunities to mentor medical students and residents in basic psychiatric concepts, as well as delivering high quality health care to all population groups.

Led by physicians with a commitment to patient care, education and research, Scott & White is listed among the "Top 100 Hospitals" in America. Scott & White Health System serves as the clinical educational site for The Texas A&M University System Health Science Center College of Medicine.

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# Louis A. Johnson VA Healthcare System

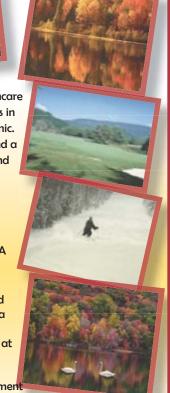
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The Louis A. Johnson VA Healthcare System is actively recruiting highly motivated and dedicated professionals to join our Behavioral Medicine & Rehabilitation Service Team. Our progressive healthcare system includes the VA Medical Center in Clarksburg, WV, four Community Based Outpatient Clinics in Braxton, Tucker, Wood and Monongalia counties, plus a Community & Rural Healthcare Mobile Clinic. Successful candidates will join a team of highly skilled professionals who provide acute psychiatry and a broad scope of outpatient behavioral medicine services to veterans in north central West Virginia and surrounding counties of Ohio, Pennsylvania and Maryland.

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ministryhealth.org/recruitment

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# **PSYCHIATRIST**

The Department of Psychiatry at The University of Texas Health Science Center at San Antonio (UTHSCSA) seeks a Director of Adult Residency Training. The position is for a full-time board-certified academic psychiatrist at the Associate Professor or Professor level in the tenure or nontenure track.

The ideal candidate will have an emerging or established national reputation, show evidence of leadership and innovation in psychiatric residency training, have outstanding interpersonal skills, and sufficient administrative experience to manage and lead a large residency program.

The fully accredited program includes over 60 residents as well as ACGME approved fellowships in Geriatric and Forensic Psychiatry. Approval is being sought for a Psychosomatic Medicine Fellowship. This unique program includes residency slots from Wilford Hall Air Force Medical Center, University Hospital Health System, and the Audie Murphy Veterans Hospital.

Psychiatry has strong educational, research and clinical programs in an attractive, culturally rich city situated on the edge of the Texas Hill Country, with a pleasant climate, an excellent public school system and abundant recreational activities. Interested individuals should forward their curriculum vitae to:

Pedro L. Delgado, M.D.
Professor and Chairman, Department of Psychiatry
Mail Code 7792

The University of Texas Health Science Center at San Antonio 7703 Floyd Curl Drive San Antonio TX 78229-3900

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**ALEXANDRIA** Strong clinical skills. Prefer experience in Geropsychiatry, Substance Abuse and/or PTSD. CV/Application to tammie.arnold@va.gov or Tammie Arnold, Psychiatry Service (116), P.O. Box 69004, Alexandria, LA 71306-9004. (318) 473-0010 ext 2696.

**SHREVEPORT** Prefer experience in Substance Abuse, PTSD. Contact Kay Cox at (318) 221-8411, ext 6772 or kay.cox@va.gov. Email or mail your CV to VAMC, HRMS (05) KC, 510 E. Stoner Ave, Shreveport, LA 71101.

**FAYETTEVILLE, MT. VERNON, FORT SMITH** Contact Laura Berg, HRMS, at laura.berg2@va.gov or (479) 443-4301, ext 5191.

MUSKOGEE, OK Contact Jason Cleveland, HRMS at 918-577-3800

# BC/BE ADULT PSYCHIATRIST

**McLeod Health** is seeking a Full-Time BC/BE Adult Psychiatrist for our Behavioral Health Psychiatric Center located in a beautiful rural setting in Darlington, SC, just minutes away from the main flagship hospital, McLeod Regional Medical Center in Florence, SC.

We have an extensive support staff for the hospital and ED consults and a twenty-four hour Access Center. Our state-of-the-art 23-bed crisis intervention in-patient facility was built and designed specifically for the needs of the psychiatric patient. We also provide out-patient therapy for patients in a private-practice setting.

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**McLeod Regional Medical Center** is a 453 bed, tertiary care, and teaching facility serving a primary market of 6 counties, and receiving tertiary referrals from 12 counties for a total population of 1 million people.

**McLeod** is leading the way for the nation in patient care by improving quality and safety. We are committed to developing patient-centered, evidence-based, physicianled quality health care in a not-for-profit hospital system that values each individual patient.

If you are interested in joining this nationally recognized hospital, please contact Janisyn McLaurin at 843-777-5169 or by email at jmclaurin@mcleodhealth.org.

# STUDENT MENTAL HEALTH PSYCHIATRIC OPENING

# CLINICAL ASSISTANT/ASSOCIATE PROFESSOR

Position# 00024621

The **University of Florida** Student Health Care Center and Department of Psychiatry at the University of Florida College of Medicine are seeking a Psychiatrist for a full time, non-tenure clinical position with primary responsibility in Student Mental Health.

The **University of Florida** is a large state university, which provides undergraduate, graduate, and professional education to an ethnically and culturally diverse population. Student Mental Health Services is comprised of the General Mental Health Clinic, Center for Sexual Assault/Abuse Recovery and Education, Eating Disorders Program, Alcohol and Substance Abuse Program, and Psychiatry Services.

The successful candidate would collaborate with a large multidisciplinary staff made up of psychologists, mental health counselors, psychiatrists, psychiatric ARNP's and other medical providers. In addition, this person will also have the opportunity to be involved in teaching and research through the Department of Psychiatry within the University of Florida, a major research university.

All applicants must have an MD/DO degree, must hold or be eligible for Florida Medical Licensure, be Board Certified or eligible for Board Certification and have a demonstrated record of clinical experience in assessment, brief treatment and psychopharmacological management. Faculty rank will be commensurate with experience. Application deadline: November 21st. Send CV and Letter of Interest to:

Sylvia Montesinos, M.D.
Search Committee Chairperson for Student Mental Health
P.O. Box 100256
University of Florida, Gainesville, FL 32610-0256
Equal Opportunity Institution



West Virginia University – Charleston Division, Department of Behavioral Medicine & Psychiatry is seeking a full-time academic BC general psychiatrist who is eligible for or has completed added qualifications in addiction psychiatry, either MD or DO, for evaluation and treatment of inpatient detoxification and substance abuse related consults in the hospital. Additionally, we are seeking two general psychiatrists. The candidates must also be eligible for licensure in the state of West Virginia. Recent inpatient experience is a must.

The opportunities involve teaching and supervisory responsibilities. Students include more than 20 residents in either a general psychiatry track or a med/psych track, 30 + medical students and three PhD psychology interns. Scholarly activity is strongly encouraged and supported.

The successful candidate will join a diverse and interdisciplinary faculty, including general psychiatrists, child and adolescent psychiatrists, geriatric psychiatrists, child psychology and neuropsychology.

West Virginia University – Charleston Division is the oldest regional medical campus in the United States. Over 100 clinical faculty provide training and educational oversight to more than 80 medical students and 140 residents. We are affiliated with Charleston Area Medical Center, a non-profit, 893-bed tertiary referral center. As Southern West Virginia's premier medical teaching facility, CAMC is home to one of the top heart programs in the United States; one of two kidney transplant centers in the state and one of the nation's busiest Level I trauma centers. CAMC has three Charleston locations: General Hospital, Memorial Hospital and Women and Children's Hospital.

Send letter of inquiry and CV to Martin J. Kommor, MD, WVU Department of Behavioral Medicine & Psychiatry, 3200 MacCorkle Ave., SE, Charleston, WV 25304, <a href="mailto:martin.kommor@camc.org">martin.kommor@camc.org</a> or call **(304) 388-1010**.

Appointment will be at a level commensurate with experience and qualifications. The position will remain open until filled.

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# INDIANA UNIVERSITY SCHOOL OF MEDICINE— ELI LILLY AND CO.

### PSYCHOPHARMACOLOGY RESEARCH FELLOWSHIP

The Indiana University School of Medicine Department of Psychiatry in partnership with Eli Lilly and Co. is offering a one- to two-year research non-accredited fellowship in adult and/or child psychopharmacology. Candidates must have completed at least their PGY-III year to be eligible.

The fellowship will pair an investigator from IU with one from Lilly along a common diagnostic theme (mood or anxiety disorders, psychosis, dementia, childhood-onset disorders) or research approach (clinical trials, basic neuroscience, genetics, neuroimaging, etc.).

Fellows will spend at least 50% of their time at IU in outpatient, inpatient or laboratory research settings, and the remainder at the Lilly Corporate Research Facilities, located less than two miles away. The fellow will become proficient in state-of-the-art diagnostic/therapeutic approaches or laboratory/genetic/neuroimaging techniques.

Eligible applicants must be U.S. citizens or permanent residents and have completed an M.D. or comparable degree. One opening for the 2009-2010 academic year is available. Applications are encouraged from professionals of all ethnic backgrounds. Interested applicants should send a statement of interest, their curriculum vitae with a summary of relevant clinical/laboratory and academic experience, and the names of at least three references to:

David J. Posey, M.D., Associate Professor of Psychiatry Riley Hospital for Children Room 4300 702 Barnhill Dr. Indianapolis, IN 46202 dposey@iupui.edu

Applications will be accepted until the position is filled. The departmental website is located at http://psychiatry.medicine.iu.edu/. Indiana University is an EEO/AA Employer, M/F/D.

# DEPARTMENT OF VETERANS AFFAIRS

The G.V. (Sonny) Montgomery VA Medical Center is recruiting for three full-time psychiatrists for the Mental Health Product Line. Duties may involve several aspects of general psychiatry, including inpatient, outpatient, consultative, or telemedicine psychiatry. The successful candidate must be board certified / board eligible in psychiatry.

Interest and experience in teaching and research are desirable. The incumbent should be eligible for a faculty appointment at the University of Mississippi School of Medicine, Department of Psychiatry. The G. V. (Sonny) Montgomery VA Medical Center, Mental Health Service is an integral part of the South Central VA Health Care Network, Mental Illness Research, Education and Clinical Center (MIRECC) with basic, clinical and health services project on schizophrenia, mood disorders, PTSD, substance abuse and dementia.

Our VA is a 163-bed acute care medical center with a 120-bed nursing home care unit, research and education facility, and outpatient clinics. We offer excellent benefits, such as, vacation/sick leave, health/life insurance coverage, and retirement package including a tax deferred savings plan.

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Interested candidates should submit: Application for Physicians, Dentists, Podiatrists, and Chiropractors (VAF 10-2850) http://www.va.gov/vaforms/ and Declaration for Federal Employment (OF-306) http://www.opm.gov/forms/index.htm to:

Felicia Owens, HR Specialist
Human Resources Service (05P), VA Medical Center
1500 E. Woodrow Wilson Dr.
Jackson, MS 39216
Email: Felicia.Owens@va.gov
Phone: 601-364-1575

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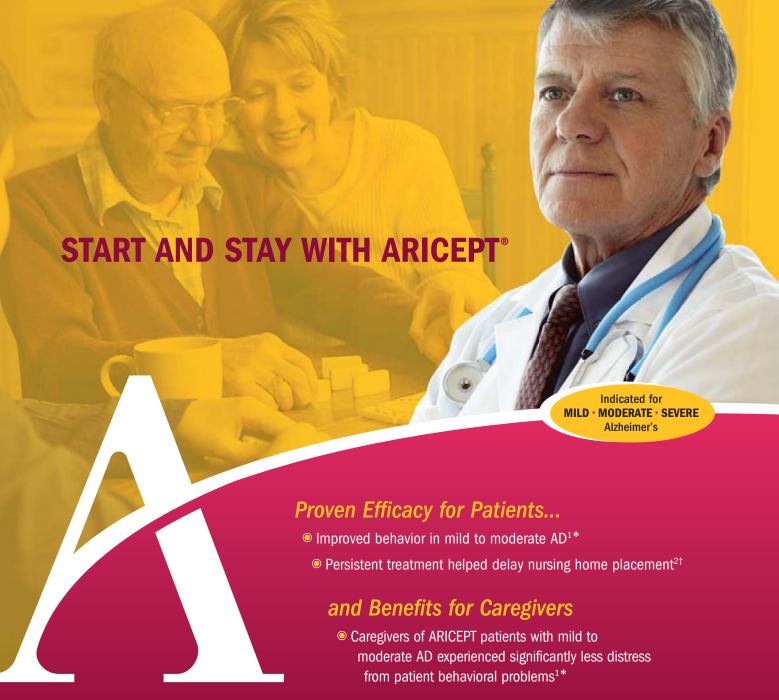
ARICEPT® ODT (Donepezil Hydrochloride) Orally Disintegrating Tablets

INDICATIONS AND USAGE ARICEPT® is indicated for the treatment of dementia of the Alzheimer's type. Efficacy has been demonstrated in patients with mild to moderate Alzheimer's Disease, as well as in patients with severe Alzheimer's Disease. CONTRAINDICATIONS ARICEPT® is contraindicated in patients with known hypersensitivity to donepezil hydrochloride or to piperidine derivatives. **WARNINGS** *Anesthesia:* ARICEPT®, as a cholinesterase inhibitor, is likely to exaggerate succinylcholine-type muscle relaxation during anesthesia. Cardiovascular Conditions: Because of their pharmacological action, cholinesterase inhibitors may have vagotonic effects on the sinoatrial and atrioventricular nodes. This effect may manifest as bradycardia or heart block in patients both with and without known underlying cardiac conduction abnormalities. Syncopal episodes have been reported in association with the use of ARICEPT®. Gastrointestinal Conditions: Through their primary action, cholinesterase inhibitors may be expected to increase gastric acid secretion due to increased cholinergic activity. Therefore, patients should be monitored closely for symptoms of active or occult gastrointestinal bleeding, especially those at increased risk for developing ulcers, e.g., those with a history of ulcer disease or those receiving concurrent nonsteroidal anti-inflammatory drugs (NSAIDS). Clinical studies of ARICEPT® have shown no increase, relative to placebo, in the incidence of either peptic ulcer disease or gastrointestinal bleeding. ARICEPT®, as a predictable consequence of its pharmacological properties, has been shown to produce diarrhea, nausea and vomiting. These effects, when they occur, appear more frequently with the 10 mg/day dose than with the 5 mg/day dose. In most cases, these effects have been mild and transient, sometimes lasting one to three weeks, and have resolved during continued use of ARICEPT® Genitourinary: Although not observed in clinical trials of ARICEPT®, cholinomimetics may cause bladder outflow obstruction. Neurological Conditions: Seizures: Cholinomimetics are believed to have some potential to cause generalized convulsions. However, seizure activity also may be a manifestation of Alzheimer's Disease, **Pulmonary Conditions:** Because of their cholinomimetic actions, cholinesterase inhibitors should be prescribed with care to patients with a history of asthma or obstructive pulmonary disease. PRECAUTIONS Drug-Drug Interactions (see Clinical Pharmacology: Clinical Pharmacokinetics: Drug-drug Interactions) Effect of ARICEPT® on the Metabolism of Other Drugs: No in vivo clinical trials have investigated the effect of ARICEPT® on the clearance of drugs metabolized by CYP 3A4 (e.g. cisapride, terfenadine) or by CYP 2D6 (e.g. imipramine). However, in vitro studies show a low rate of binding to these enzymes (mean K, about 50-130 µM), that, given the therapeutic plasma concentrations of donepezil (164 nM), indicates little likelihood of interference. Whether ARICEPT\* has any potential for enzyme induction is not known. Formal pharmacokinetic studies evaluated the potential of ARICEPT® for interaction with theophylline, cimetidine, warfarin, digoxin and ketoconazole. No effects of ARICEPT® on the pharmacokinetics of these drugs were observed. Effect of Other Drugs on the Metabolism of ARICEPT\*: Ketoconazole and quinidine, inhibitors of CYP450, 3A4 and 2D6, respectively, inhibit done pezil metabolism in vitro. Whether there is a clinical effect of quinidine is not known. In a 7-day crossover study in 18 health, volunteers, ketoconazole (200 mg q.d.) increased mean done pezil (5 mg q.d.) concentrations (AUC<sub>n.24</sub> and C<sub>max</sub>) by 36%. The clinical relevance of this increase in concentration is unknown. Inducers of CYP 2D6 and CYP 3A4 (e.g., phenytoin, carbamazepine dexamethasone, rifampin, and phenobarbital) could increase the rate of elimination of ARICEPT®. Formal pharmacokinetic studies demonstrated that the metabolism of ARICEPT® is not significantly affected by concurrent administration of digoxin or cimetidine. *Use* with Anticholinergics: Because of their mechanism of action, cholinesterase inhibitors have the potential to interfere with the activity of anticholinergic medications. *Use with Cholinomimetics and Other Cholinesterase Inhibitors:* A synergistic effect may be expected when cholinesterase inhibitors are given concurrently with succinylcholine, similar neuromuscular blocking agents or cholinergic agonists such as bethanechol. Carcinogenesis, Mutagenesis, Impairment of Fertility No evidence of a carcinogenic potential was obtained in an 88-week carcinogenicity study of donepezil hydrochloride conducted in CD-1 mice at doses up to 180 mg/kg/day (approximately 90 times the maximum recommended human dose on a mg/m² basis), or in a 104-week carcinogenicity study in Sprague-Dawley rats at doses up to 30 mg/kg/day (approximately 30 times the maximum recommended human dose on a mg/m² basis). Done pezil was not mutagenic in the Ames reverse mutation assay in bacteria, or in a mouse lymphoma forward mutation assay in vitro. In the chromosome aberration test in cultures of Chinese hamster lung (CHL) cells, some clastogenic effects were observed. Donepezil was not clastogenic in the in vivo mouse micronucleus test and was not genotoxic in an in vivo unscheduled DNA synthesis assay in rats. Donepezil had no effect on fertility in rats at doses up to 10 mg/kg/day (approximately 8 times the maximum recommended human dose on a mg/m² basis). **Pregnancy Pregnancy Category C:** Teratology studies conducted in pregnant rats at doses up to 16 mg/kg/day (approximately 13 times the maximum recommended human dose on a mg/m² basis) and in pregnant rabbits at doses up to 10 mg/kg/day (approximately 16 times the maximum recommended human dose on a mg/m<sup>2</sup> basis) did not disclose any evidence for a teratogenic potential of donepezil. However, in a study in which pregnant rats were given up to 10 mg/kg/day (approximately 8 times the maximum recommended human dose on a mg/m² basis) from day 17 of gestation through day 20 postpartum, there was a slight increase in still births and a slight decrease in pup survival through day 4 postpartum at this dose; the next lower dose tested was 3 mg/kg/day. There are no adequate or well-controlled studies in pregnant women. ARICEPT® should be used during pregnancy only if the potential benefit justifies the potential risk to the fetus. Nursing Mothers It is not known whether donepezil is excreted in human breast milk. ARICEPT® has no indication for use in nursing mothers. Pediatric Use There are no adequate and well-controlled trials to document the safety and efficacy of ARICEPT® in any illness occurring in children. Geriatric Use Alzheimer's disease is a disorder occurring primarily in individuals over 55 years of age. The mean age of the patients enrolled in the clinical studies with ARICEPT® was 73 years; 80% of these patients were between 65 and 84 years old and 49% of the patients were at or above the age of 75. The efficacy and safety data presented in the clinical trials section were obtained from these  $patients. There were no clinically significant differences in most adverse events reported by patient groups {\it \ge}65 \, years \, old \, and \, {\it <}65 \, years \, old \, and \, {\it <}65 \, years \, old \, and \, {\it <}65 \, years \, old \, and \, {\it <}65 \, years \, old \, and \, {\it <}65 \, years \, old \, and \, {\it <}65 \, years \, old \, and \, {\it <}65 \, years \, old \, and \, {\it <}65 \, years \, old \, and \, {\it <}65 \, years \, old \, and \, {\it <}65 \, years \, old \, and \, {\it <}65 \, years \, old \, and \, {\it <}65 \, years \, old \, and \, {\it <}65 \, years \, old \, and \, {\it <}65 \, years \, old \, and \, {\it <}65 \, years \, old \, and \, {\it <}65 \, years \, old \, and \, {\it <}65 \, years \, old \, and \, {\it <}65 \, years \, old \, and \, {\it <}65 \, years \, old \, and \, {\it <}65 \, years \, old \, and \, {\it <}65 \, years \, old \, and \, {\it <}65 \, years \, old \, and \, {\it <}65 \, years \, old \, and \, {\it <}65 \, years \, old \, and \, {\it <}65 \, years \, old \, and \, {\it <}65 \, years \, old \, and \, {\it <}65 \, years \, old \, and \, {\it <}65 \, years \, old \, and \, {\it <}65 \, years \, old \, and \, {\it <}65 \, years \, old \, and \, {\it <}65 \, years \, old \, and \, {\it <}65 \, years \, old \, and \, {\it <}65 \, years \, old \, and \, {\it <}65 \, years \, old \, and \, {\it <}65 \, years \, old \, and \, {\it <}65 \, years \, old \, and \, {\it <}65 \, years \, old \, and \, {\it <}65 \, years \, old \, and \, {\it <}65 \, years \, old \, and \, {\it <}65 \, years \, old \, and \, {\it <}65 \, years \, old \, and \, {\it <}65 \, years \, old \, and \, {\it <}65 \, years \, old \, and \, {\it <}65 \, years \, old \, and \, {\it <}65 \, years \, old \, and \, {\it <}65 \, years \, old \, and \, {\it <}65 \, years \, old \, and \, {\it <}65 \, years \, old \, and \, {\it <}65 \, years \, old \, and \, {\it <}65 \, years \, old \, and \, {\it <}65 \, years \, old \, and \, {\it <}65 \, years \, old \, and \, {\it <}65 \, years \, old \, and \, {\it <}65 \, years \, old \, and \, {\it <}65 \, years \, old \, and \, {\it <}65 \, years \, old \, and \, {\it <}65 \, years \, old \, and \, {\it <}65 \, years \, old \, and \, {\it <}65 \, years \, old \, and \, {\it <}65 \, years \, old \, and \, {\it <}65 \, years \, old \, and \, {\it <}65 \, years \, old \, and \, {\it <}65 \, years \, old \, and \, {\it <}65 \, years$ old. ADVERSE REACTIONS Mild To Moderate Alzheimer's Disease Adverse Events Leading to Discontinuation The rates of discontinuation from controlled clinical trials of ARICEPT® due to adverse events for the ARICEPT® 5 mg/day treatment groups were comparable to those of placebo-treatment groups at approximately 5%. The rate of discontinuation of patients who received 7-day escalations from 5 mg/day to 10 mg/day, was higher at 13%. The most common adverse events leading to discontinuation, defined as those occurring in at least 2% of patients and at twice the incidence seen in placebo patients, are shown in Table 1. Table 1. Most Frequent Adverse Events Leading to Withdrawal from Controlled Clinical Trials by Dose Group (Placebo, 5 mg/day ARICEPT\*, and 10 mg/day ARICEPT\*, respectively); Patients Randomized (355, 350, 315); Event/% Discontinuing: Nausea (1%, 1%, 3%); Diarrhea (0%, <1%, 3%); Vomiting (<1%, <1%, 2%). Most Frequent Adverse Clinical Events Seen in Association with the Use of ARICEPT®. The most common adverse events, defined as those occurring at a frequency of at least 5% in patients receiving 10 mg/day and twice the placebo rate, are largely predicted by ARICEPT\*'s cholinomimetic effects. These include nausea, diarrhea, insomnia, vomiting, muscle cramp, fatigue and anorexia. These adverse events were often of mild intensity and transient, resolving during continued ARICEPT® treatment without the need for dose modification. There is evidence to suggest that the frequency of these common adverse events may be affected by the rate of titration. An open-label study was conducted with 269 patients who received placebo in the 15 and 30-week studies. These patients were titrated to a dose of 10 mg/day over a 6-week period. The rates of common adverse events were lower than those seen in patients titrated to 10 mg/day over one week in the controlled clinical trials and were comparable to those seen in patients on 5 mg/day. See Table 2 for a comparison of the most common adverse events following one and six week titration regimens. Table 2. Comparison of rates of adverse events in patients titrated to 10 mg/day over 1 and 6 weeks (No titration: Placebo [n=315], No titration: 5 mg/day [n=311], One week titration: 10 mg/day [n=315], Six week titration: 10 mg/day [n=269], respectively): Nausea (6%, 5% 19%, 6%); Diarrhea (5%, 8%, 15%, 9%); Insomnia (6%, 6%, 14%, 6%); Fatigue (3%, 4%, 8%, 3%); Vomiting (3%, 3%, 8%, 5%); Muscle cramps (2%, 6%, 8%, 3%); Anorexia (2%, 3%, 7%, 3%). **Adverse Events Reported in Controlled Trials** The events cited reflect experience gained under closely monitored conditions of clinical trials in a highly selected patient population. In actual clinical practice or in other clinical trials, these frequency estimates may not apply, as the conditions of use, reporting behavior, and the kinds of patients treated may differ. Table 3 lists treatment emergent signs and symptoms that were reported in at least 2% of patients in placebo-controlled trials who received ARICEPT® and for which the rate of occurrence was greater for ARICEPT® assigned than placebo assigned patients. In general, adverse events occurred more frequently in female patients and with advancing age. Table 3.

Adverse Events Reported in Controlled Clinical Trials in Mild to Moderate Alzheimer's Disease in at Least 2% of Patients Receiving ARICEPT® and at a Higher Frequency than Placebo-treated Patients (Body System/Adverse Event: Placebo [n=355], ARICEPT\* [n=747], respectively): Percent of Patients with any Adverse Event: 72, 74. Body as a Whole: Headache (9, 10); Pain, various locations (8, 9); Accident (6, 7); Fatigue (3, 5). Cardiovascular System: Syncope (1, 2). Digestive System: Nausea (6, 11); Diarrhea (5, 10); Vomiting (3, 5); Anorexia (2, 4). Hemic and Lymphatic System: Ecchymosis (3, 4). Metabolic and Nutritional Systems: Weight Decrease (1, 3). Musculoskeletal System: Muscle Cramps (2, 6); Arthritis (1, 2). **Nervous System:** Insomnia (6, 9); Dizziness (6, 8); Depression (<1, 3); Abnormal Dreams (0, 3); Somnolence (<1,2). Urogenital System: Frequent Urination (1,2). Other Adverse Events Observed During Clinical Trials. ARICEPT® has been administered to over 1700 individuals during clinical trials worldwide. Approximately 1200 of these patients have been treated for at least 3 months and more than 1000 patients have been treated for at least 6 months. Controlled and uncontrolled trials

in the United States included approximately 900 patients. In regards to the highest dose of 10 mg/day, this population includes 650 patients treated for 3 months, 475 patients treated for 6 months and 116 patients treated for over 1 year. The range of patient exposure is from 1 to 1214 days. Treatment emergent signs and symptoms that occurred during 3 controlled clinical trials and two open-label trials in the United States were recorded as adverse events by the clinical investigators using terminology of their own choosing. To provide an overall estimate of the proportion of individuals having similar types of events, the events were grouped into a smaller number of standardized categories using a modified COSTART dictionary and event frequencies were calculated across all studies. These categories are used in the listing below. The frequencies represent the proportion of 900 patients from these trials who experienced that event while receiving ARICEPT®. All adverse events occurring at least twice are included, except for those already listed in Tables 2 or 3 COSTART terms too general to be informative, or events less likely to be drug caused. Events are classified by body system and listed using the following definitions: frequent adverse events—those occurring in at least 1/100 patients; infrequent adverse events those occurring in 1/100 to 1/1000 patients. These adverse events are not necessarily related to ARICEPT® treatment and in most cases were observed at a similar frequency in placebo-treated patients in the controlled studies. No important additional adverse events were seen in studies conducted outside the United States. Body as a Whole: Frequent: influenza, chest pain, toothache; Infrequent. fever, edema face, periorbital edema, hernia hiatal, abscess, cellulitis, chills, generalized coldness, head fullness, listlessness Cardiovascular System: Frequent: hypertension, vasodilation, atrial fibrillation, hot flashes, hypotension; Infrequent: angina pectoris, postural hypotension, myocardial infarction, AV block (first degree), congestive heart failure, arteritis, bradycardia, peripheral vascular disease, supraventricular tachycardia, deep vein thrombosis. Digestive System: Frequent: fecal incontinence, gastrointestinal bleeding, bloating, epigastric pain; Infrequent: eructation, gingivitis, increased appetite, flatulence, periodontal abscess, cholelithiasis, diverticulitis, drooling, dry mouth, fever sore, gastritis, irritable colon, tongue edema, epigastric distress, gastroenteritis increased transaminases, hemorrhoids, ileus, increased thirst, jaundice, melena, polydipsia, duodenal ulcer, stomach ulcer. Endocrine System: Infrequent: diabetes mellitus, goiter, Hemic and Lymphatic System: Infrequent: anemia, thrombocythemia thrombocytopenia, eosinophilia, erythrocytopenia. Metabolic and Nutritional Disorders: Frequent: dehydration; Infrequent. gout, hypokalemia, increased creatine kinase, hyperglycemia, weight increase, increased lactate dehydrogenase. Musculoskeletal System: Frequent: bone fracture; Infrequent: muscle weakness, muscle fasciculation. Nervous System: Frequent: delusions tremor, irritability, paresthesia, aggression, vertigo, ataxia, increased libido, restlessness, abnormal crying, nervousness, aphasia; Infrequent: cerebrovascular accident, intracranial hemorrhage, transient ischemic attack, emotional lability, neuralgia, coldness (localized), muscle spasm, dysphoria, gait abnormality, hypertonia, hypokinesia, neurodermatitis, numbness (localized), paranoia, dysarthria, dysphasia, hostility, decreased libido, melancholia, emotional withdrawal, nystagmus, pacing. Respiratory System: Frequent: dyspnea, sore throat, bronchitis; Infrequent: epistaxis, post nasal drip, pneumonia, hyperventilation, pulmonary congestion, wheezing, hypoxia, pharyngitis, pleurisy, pulmonary collapse, sleep apnea, snoring. Skin and Appendages: Frequent: pruritus, diaphoresis, urticaria; Infrequent: dermatitis, erythema, skin discoloration, hyperkeratosis, alopecia, fungal dermatitis, herpes zoster hirsutism, skin striae, night sweats, skin ulcer. Special Senses: Frequent: cataract, eye irritation, vision blurred; Infrequent: dry eyes, glaucoma, earache, tinnitus, blepharitis, decreased hearing, retinal hemorrhage, otitis externa, otitis media, bad taste, conjunctival hemorrhage, ear buzzing, motion sickness, spots before eyes. Urogenital System: Frequent: urinary incontinence, nocturia Infrequent: dysuria, hematuria, urinary urgency, metrorrhagia, cystitis, enuresis, prostate hypertrophy, pyelonephritis, inability to empty bladder, breast fibroadenosis, fibrocystic breast, mastitis, pyuria, renal failure, vaginitis. Severe Alzheimer's Disease Adverse Events Leading to Discontinuation: The rates of discontinuation from controlled clinical trials of ARICEPT® due to adverse events for the ARICEPT® patients were approximately 12% compared to 7% for placebo patients. The most common adverse events leading to discontinuation, defined as those occurring in at least 2% of ARICEPT® patients and at twice the incidence seen in placebo patients, were anorexia (2% vs 1% placebo), nausea (2% vs <1% placebo), diarrhea (2% vs 0% placebo), and urinary tract infection (2% vs 1% placebo). Most Frequent Adverse Clinical Events Seen in Association with the Use of ARICEPT The most common adverse events, defined as those occurring at a frequency of at least 5% in patients receiving ARICEPT® and twice the placebo rate, are largely predicted by ARICEPT"'s cholinomimetic effects. These include diarrhea, anorexia, vomiting, nausea, and ecchymosis. These adverse events were often of mild intensity and transient, resolving during continued ARICEPT® treatment without the need for dose modification. Adverse Events Reported in Controlled Trials Table 4 lists treatment emergent signs and symptoms that were reported in at least 2% of patients in placebo-controlled trials who received ARICEPT® and for which the rate of occurrence was greater for ARICEPT® assigned than placebo assigned patients. Table 4. Adverse Events Reported in Controlled Clinical Trials in Severe Alzheimer's Disease in at Least 2% of Patients Receiving ARICEPT® and at a Higher Frequency than Placebo-treated Patients (Body System/Adverse Event: Placebo [n=392], ARICEPT [n=501], respectively): Percent of Patients with any Adverse Event: 73, 81. Body as a Whole: Accident (12, 13) Infection (9, 11); Headache (3, 4); Pain (2, 3); Back Pain (2, 3); Fever (1, 2); Chest Pain (<1, 2). Cardiovascular System: Hypertension (2, 3); Hemorrhage (1, 2); Syncope (1, 2). Digestive System: Diarrhea (4, 10); Vomiting (4, 8); Anorexia (4, 8); Nausea (2, 6). **Hemic and Lymphatic System:** Ecchymosis (2, 5). **Metabolic and Nutritional Systems:** Creatine Phosphokinase Increased (1, 3); Dehydration (1, 2); Hyperlipemia (<1, 2). Nervous System: Insomnia (4, 5); Hostility (2, 3) Nervousness (2, 3); Hallucinations (1, 3); Somnolence (1, 2); Dizziness (1, 2); Depression (1, 2); Confusion (1, 2); Emotional Lability (1, 2); Personality Disorder (1, 2). Skin and Appendages: Eczema (2, 3). Urogenital System: Urinary Incontinence (1, 2). Other Adverse Events Observed During Clinical Trials ARICEPT\* has been administered to over 600 patients with severe Alzheimer's Disease during clinical trials of at least 6 months duration, including 3 double blind placebo controlled trials, one of which had an open label extension. All adverse events occurring at least twice are included, except for those already listed in Table 4, COSTART terms too general to be informative, or events less likely to be drug caused. Events are classified by body system using the COSTART dictionary and listed using the following definitions: frequent adverse events—those occurring in at least 1/100 patients; infrequent adverse events—those occurring in 1/100 to 1/1000 patients. These adverse events are not necessarily related to ARICEPT® treatment and in most cases were observed at a similar frequency in placebo-treated patients in the controlled studies. Body as a Whole: Frequent: abdominal pain, asthenia, fungal infection, flu syndrome; Infrequent: allergic reaction, cellulitis, malaise, sepsis, face edema, hernia Cardiovascular System: Frequent: hypotension, bradycardia, ECG abnormal, heart failure; Infrequent: myocardial infarction angina pectoris, atrial fibrillation, congestive heart failure, peripheral vascular disorder, supraventricular extrasystoles, ventricular extrasystoles, cardiomegaly. Digestive System: Frequent: constination, gastroenteritis, fecal incontinence, dyspensia: Infrequent gamma glutamyl transpeptidase increase, gastritis, dysphagia, periodontitis, stomach ulcer, periodontal abscess, flatulence, liver function tests abnormal, eructation, esophagitis, rectal hemorrhage. Endocrine System: Infrequent: diabetes mellitus. Hemic and Lymphatic System: Frequent: anemia; Infrequent: leukocytosis. Metabolic and Nutritional Disorders: Frequent: weight loss, peripheral edema, edema, lactic dehydrogenase increased, alkaline phosphatase increased; Infrequent: hypercholesteremia, hypokalemia, hypoglycemia, weight gain, bilirubinemia, BUN increased, B<sub>2</sub> deficiency anemia, cachexia, creatinine increased, gout, hyponatremia, hypoproteinemia, iron deficiency anemia, SGOT increased, SGPT increased. Musculoskeletal System: Frequent: arthritis; Infrequent: arthrosis, bone fracture, arthralgia, leg cramps, osteoporosis, myalgia. Nervous System: Frequent: agitation anxiety, tremor, convulsion, wandering, abnormal gait; Infrequent: apathy, vertigo, delusions, abnormal dreams, cerebrovascular accident, increased salivation, ataxia, euphoria, vasodilatation, cerebral hemorrhage, cerebral infarction, cerebral ischemia, dementia, extrapyramidal syndrome, grand mal convulsion, hemiplegia, hypertonia, hypokinesia. **Respiratory System:** Frequent: pharyngitis, pneumonia, cough increased, bronchitis; Infrequent: dyspnea, rhinitis, asthma. Skin and Appendages: Frequent: rash, skin ulcer, pruritus; Infrequent: psoriasis, skin discoloration, herpes zoster, dry skin, sweating, urticaria, vesiculobullous rash. Special Senses Infrequent: conjunctivitis, glaucoma, abnormal vision, ear pain, lacrimation disorder. Urogenital System: Frequent: urinary tract infection, cystitis, hematuria, glycosuria; Infrequent: vaginitis, dysuria, urinary frequency, albuminuria. **Postintroduction Reports**Voluntary reports of adverse events temporally associated with ARICEPT\* that have been received since market introduction that are not listed above, and that there is inadequate data to determine the causal relationship with the drug include the following: abdominal pain, agitation, cholecystitis, confusion, convulsions, hallucinations, heart block (all types), hemolytic anemia, hepatitis, hyponatremia neuroleptic malignant syndrome, pancreatitis, and rash. OVERDOSAGE Because strategies for the management of overdose are continually evolving, it is advisable to contact a Poison Control Center to determine the latest recommendations for the management of an overdose of any drug. As in any case of overdose, general supportive measures should be utilized. Overdosage with cholinesterase inhibitors can result in cholinergic crisis characterized by severe nausea, vomiting, salivation, sweating, bradycardia, hypotension, respiratory depression, collapse and convulsions. Increasing muscle weakness is a possibility and may result in death if respiratory muscles are involved. Tertiary anticholinergics such as atropine may be used as an antidote for ARICEPT® overdosage. Intravenous atropine sulfate titrated to effect is recommended: an initial dose of 1.0 to 2.0 mg IV with subsequent doses based upon clinical response. Atypical responses in blood pressure and heart rate have been reported with other cholinomimetics when co-administered with quaternary anticholinergics such as glycopyrrolate. It is not known whether ARICEPT® and/or its metabolites can be removed by dialysis (hemodialysis, peritoneal dialysis, or hemofiltration). Dose-related signs of toxicity in animals included reduced spontaneous movement, prone position, staggering gait, lacrimation, clonic convulsions, depressed respiration, salivation, miosis, tremors, fasciculation and lower body surface temperature.

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\*The primary end point was the Neuropsychiatric Inventory (NPI); secondary measures included the Neuropsychiatric Inventory-Distress (NPI-D).

†As with observational follow-up studies of this type, results may be attributable to various factors. ARICEPT treatment was one such factor.

### Important safety information

Cholinesterase inhibitors have the potential to increase gastric acid secretion. Patients at risk for developing ulcers, including those receiving concurrent NSAIDs, should be monitored closely for gastrointestinal bleeding.

In clinical trials, syncopal episodes have been reported (2% for ARICEPT versus 1% for placebo).

In clinical trials, the most common adverse events seen with ARICEPT were nausea, diarrhea, insomnia, vomiting, muscle cramps, fatigue, anorexia, and ecchymosis. In studies, these were usually mild and transient.

Please see brief summary of prescribing information on adjacent page.

References: 1. Holmes C, Wilkinson D, Dean C, et al. The efficacy of donepezil in the treatment of neuropsychiatric symptoms in Alzheimer disease. Neurology. 2004;63:214-219. 2. Geldmacher DS, Provenzano G, McRae T, Mastey V, Ieni JR. Donepezil is associated with delayed nursing home placement in patients with Alzheimer's disease. J Am Geriatr Soc. 2003;51:937-944.



