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Choose SEROQUEL for bipolar depression

SEROQUEL is the only mood-stabilizing atypical approved to control the depressive symptoms of bipolar disorder^{1,2}

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)



Please see additional Important Safety Information on the adjacent pages, and Brief Summary, including Boxed Warnings, adjacent to this ad.



SEROQUEL is the only mood-stabilizing atypical approved to control the depressive symptoms of bipolar disorder^{1,2}

- SEROQUEL is approved for both the acute and maintenance treatment of bipolar depression*1
- SEROQUEL stabilizes mood in both acute mania and bipolar depression¹
- As adjunct therapy, SEROQUEL helps maintain remission of depressive symptoms*³

*Maintenance therapy as adjunct to lithium or divalproex.

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/mm³
- 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

Please see additional Important Safety Information on the adjacent pages, and Brief Summary, including Boxed Warnings, adjacent to this ad.



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)

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 placebocontrolled 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 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 (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. 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. 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 placebo-controlled doubleblind studies in patients with Bipolar I Disorder. 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. 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 Dosina Schedule

Day	Day 1	Day 2	Day 3	Day 4
SEROQUEL	50 mg	100 mg	200 mg	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.

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

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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, 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. 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 quetapine 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 medication should be reevaluated periodically.

CONTRAINDICATIONS

None known

WARNINGS AND PRECAUTIONS

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 shortterm trials of 9 antidepressant drugs in over 4400 patients. The pooled analyses of placebocontrolled 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.

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 antide pressant, 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 SERQOUEL 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 SER0QUEL may induce orthostatic hypotension associated with dizziness, tachycardia and, in some patients, syncope, especially during the initial dose-titration period, probably reflecting its α_1 -adrenergic antagonist properties. Syncope was reported in

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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 causative factors. Patients with neutropenia should be carefully monitored for fever or other symptoms or signs of infection and treated promptly if such symptoms or signs occur. Patients with severe neutropenia (absolute neutrophil count <1000/mm³) 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.

Cotoracts The development of cataracts was observed in association with quetiapine treatment in chronic dog studies. 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.

Cholesterol and Triglyceride Elevations In schizophrenia trials, the proportions of patients with elevations to levels of cholesterol \geq 240 mg/dL and triglycerides \geq 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. 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.

Transominose 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 placebo-controlled 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 α same selevations 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 compared to 4% of placebo patients. In acute bipolar mania trials using SEROQUEL compared to 4% of placebo patients. In acute bipolar mania trials using SEROQUEL as monotherapy, 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 on SEROQUEL compared to 7% of placebo patients. In these trials, sedation was reported in 30% of placebo patients. In these trials, sedation was reported in 30% of patients 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.

Priopism 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. 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**).

Withdrawol 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

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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 treatmentemergent 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)¹

Body System/Preferred Term	SEROQUEL (n=719)	PLACEBO (n=404)	
Body as a Whole	()	()	
Headache	21%	14%	
Pain	7%	5%	
Asthenia	5%	3%	
Abdominal Pain	4%	1%	
Back Pain	3%	1%	
Fever	2%	1%	
Cardiovascular			
Tachycardia	6%	4%	
Postural Hypotension	4%	1%	
Digestive			
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			
Pharvngitis	4%	3%	
Rhinitis	3%	1%	
Skin and Appendages			
Rash	4%	2%	
Special Senses			
Amblyopia	2%	1%	

1Reactions 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, hypertonia, 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.

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

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 (does 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 ¹	

Body System/Preferred Term		PLACEBO
Gastrointestinal Disorders	(11=090)	(11=047)
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%

1 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 *Doserelated 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. *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

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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 (atkhisia, akinesia, cogwheel rigidity, extrapyramidal syndrome, hypertonia, hypokinesia, neck rigidity, and tremor), and (3) use of anticholinergic medications to treat emergent EPS.

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Dose Groups	Placebo	75 mg	150 mg	300 mg	600 mg	750 mg
Parkinsonism	-0.6	-1.0	-1.2	-1.6	-1.8	-1.8
EPS incidence	16%	6%	6%	4%	8%	6%
Anticholinergic medications	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 total 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 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 109/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 (active-controlled, 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 ≥126mg/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 \geq 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 and restless legs. 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 syndrome (SJS).

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 Queticpine 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 SERQUEL may be required to maintain control of symptoms of schizophrenia in patients receiving quetiapine and phenytoin, or other hepatic enzyme inducers (e.g., carba-mazepine, barbiturates, rifampin, gluccorticoids). 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). 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

*adjusted for gender

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 steady-state pharmacokinetics of quetiapine.

Effect of Queticpine 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 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/m² 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/m² basis) and in rabbits at 50 and 100 mg/kg (1.2 and 2.4 times the maximum human dose on a mg/m² 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/m² 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/m² 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/m² 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/m² 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.

Pedictric 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.

Gericitric 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 **Dosage and Administration**).

DRUG ABUSE AND DEPENDENCE

Controlled Substance SEROQUEL is not a controlled substance.

Abuse SEROQUEL has not been 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.

OVERDOSAGE

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 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 SERQUEL. 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 SERQUEL. 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 stimu lation 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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extraordinary competence in psychiatric administration over a substantial period and has achieved a national reputation in this area. In addition, he or she must have directed a comprehensive program for the care of patients with mental illness and have contributed significantly to the field of psychiatric administration through activities such as teaching and research. Membership in APA and

board certification are additional requirements.

Completed nominations must be received by September 1, 2008. Materials should be sent to:

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When patients have an inadequate response to antidepressant therapy

Taking the next step can help provide relief.

The **first and only** adjunctive therapy to antidepressants for Major Depressive Disorder in adults.¹



HELP ILLUMINATE THE PERSON WITHIN

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

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).

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

www.abilify.com

IMPORTANT SAFETY INFORMATION and INDICATION for ABILIFY® (aripiprazole)

INDICATION

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

IMPORTANT SAFETY INFORMATION

WARNINGS: Increased Mortality in Elderly Patients with Dementia-Related Psychosis and Suicidality and Antidepressant Drugs

See Full Prescribing Information for complete boxed warning 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). 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. 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.

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 MDD.

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.

Reference:

1. PDR[®] Electronic Library™ (n.d.). Greenwood Village, CO: Thomson Micromedex. http://www.thomsonhc.com. Accessed October 16, 2007.



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

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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 SUICIDALITY AND ANTIDEPRESSANT DRUGS

SUICIDALITY AND ANTIDEPRESSANT DRUGS 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 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. Dver 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 (eg, heart failure, sudden death) or infectious (eg, pneumonia) in nature. ABLIFY is not approved for the treatment of patients with dementia-related psychosis (see WARNINGS AND PRECAUTIONS).

processing the WARNINGS AND PRECAUTIONS). Antidepreseants increased the risk compared to placebo of suicidal thinking and behavior (suicidality) in children, adolescents, and young adults in short-term studies of Mayor Depressive Disorder (MDD) and other psychiatric disorders. Anyone considering the use of adjunctive ABILIFY 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 55 and older. Depression and certain other psychiatric disorders are themschwe associated with increases in the risk of suicidality, or unusual changes in behavior. Families and caregivers chould be advised of the need for close observation and communication with the prescriber. ABILIFY is not approved for use in pediatric patients with depression *face WARNINGS AND PRECAUTIONS*].

INDICATIONS AND USAGE

ABUEY (antipionzole) is indicated for use as an adjunctive treatment to antidepressants for Major Depressive Disorder in adults (see CUNICAL STUDIES (14.3) in Full Presoning Information).

CONTRAINDICATIONS: Known hypersensilivity reaction to ABILIFY. Reactions have ranged from pruritus/urticaria to anaphylaxis (see ADVERSE REACTIONS

MOWLINKS: MURPHICS AND PRECAUTIONS: Use in Elderly Patients with Dementia-Related Psychoais - Increased Mortality: Elderly patients with dementia-related psychoais treated with atypical antipsycholic drugs are at an increased risk of death compared to placebo. ABILIFY is not approved for the treatment of patients with dementia-related psychoais (see BOXED WARNING). Cerebrovascular Adverse Events, including Stoke: In placebo-controlled circuit studies (wo facility dee and one fixed done thuly) of dementia-related psychosis. There was an increased inclone of controlled circuit studies (wo facility dee and one fixed done thuly) of dementia-related psychosis. There was an increased inclone of controlled circuit studies (who facility dee and one fixed done etually) of tabilities, in arbitrarability and increased patients may be applied the treated with interval, including tabilities, in arbitrarability of the treated patients may be applied thread the treatment in the treatment in the treatment in the treatment in the treatment. dose response relationship for cerebrovascular advense events in patients treated with anapprazole. Anapprazole is not approved for the treatment of patients with dementia-related psychosis (see also BOKED WARNING).

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Discriber (MDI) and other psychiatric discribers. Short-term studies did not show an increase in the risk of suicidity with artidopressants compared to placebo in adults beyond age 24; there was a reduction with artidopressants compared to placebo in adults equal 65 and older. The poolid analyses of placebo-controlled trials in individen and addressants with MOD, Observive Computive Bioscher (MCD), or other psychiatric disorders included a total of 24 short-term trials of 9 antidopressant outper in work 4400 patients. The pooled analyses of placebo-controlled trials in children and addressant drugs in over 4400 patients. The pooled analyses of placebo-controlled trials in adults with MOD or other psychiatric disorders included a total of 24 short-term trials of 9 antidopressant drugs in over 4400 patients. The pooled analyses of placebo-controlled trials in total or 256 short-term trials (median duration of 2 months) of 11 antidopressants for your 77,000 patients. There was considerable variation in risk of suicidally among drugs, tota tendency toward an increase in the younger patients for almost all drugs shuded. There was differences in aboute risk of suicidally across the differences (drugs via placebo), however, were introlled an total of 20 souths). There risk differences (drugs placebo), however, were introlled an trials with the drugs betweet an increases and they placebo and they placebo and the number of cases of across the difference in bloco in bloco. The risk differences (drugs via placebo), however, were introlled and they be across the cases, and (differences in the placebo cases) and bloco and they placebo and they be across the difference in bloco and they placebo and they be across the difference in bloco and they be across the across the difference in bloco in bloco and they be across the difference in the authority and they they bloco and they be across the difference in the authority and they bloco and

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

It is unknown whether the suicidality risk extends to longer-term use, ie, beyond several months. However, there is substantial evidence from ploeter-controlled meinterance trials in actelts with depression that the use of antidepressants can delay the recurrence of depression.

All potients being treated with antidepressants for any indication should be monitored appropriately and observed closely for clinical worsening, suicidaility, and unusual changes in behavior, especially during the initial tew months of a course of drug therapy, or at times of dose changes, either increases or decreases.

The following synchons, anviety, agliation, panie attacks, inscrimé, initiability, hostility, agressiveness, impublivity, allathisia (psychomotor restlessess), hypomania, and mania, have been reporter in adult and peciatric patients bring treated with antidopersessing for Mayor Devoter as biourder as well as for other indications, both psychiatric and nonsportation. Although a causal link between the emergence of such armptoma and either the womening of depression and/or the emergence of sucidal imputes has not been established, there is concern that such symptoma may represent precursors to emerging suicidality.

may represent precursors to emerging suicidally. Consideration should be given to changing the therapeutic regimes, including possibly discontinuing the medication, in patients whose depression a prestearity works, or that are expendencing emergent suicidality or symptoms that might be precursors to worsening depression or suicidality, especially are been symptome are severe, autopt in onner, or were not part of the patient's presenting symptoms. Families and caregivers of patients being treaded with antidepressants for Major Depressive Obserder or other indications, both psychiatric and negosychiatric, should be alerted about the need to monitor patients for the emergence of suicidality, and the other symptoms described above, as well as the emergence of suicidality and the report such symptoms changes in behavior, and the other symptoms described above, as well as the emergence of suicidality, and to report such symptoms immediately to healthcare providers. Such monitoring should include daily descrivation by families and caregivers. Prescriptions 10: ABLEP's should be written for the smallest quarity of tables consistent with qoot patient management, in order to induce the fixed order and experiments for the learned to floater Disorder. A major depressive given an antidepressant alone may increase it whell the election of or antivestimate elected in bother the provide the first of tables and regivers and psychiatric and the other symptome describent with expension may the initial presentation of bother. The isolation of the investmante elected in potential track for Biopler Disorder. Minet and other any of the symptomes shared alone represent such a conversion is withrown. However, profit to finging treatment with an antidepression, psimptures shared alone represent such a conversion is unknown. However, profit to finging treatment with an antidepression, psimptures shared alone represent such as conversion is beloar botteres, and depression. **Ripplar Disorder, and depression**

It should be noted that ABILIFY is not approved for use in treating depression in the pediatric population.

R should be noted that ABLEY to not approved for use in tracting dispression in the periatric population. Neuroleptic Malignant Syndrome (MMS) - A potentially fatal symptom complex sometimes referred to as Neuroleptic Malignant Syndrome (MMS) may occur with administration of an altraychold charg, including anippracele. Rate cases of NMS occurred during anipprace the teatment in the worthwise clinical teathere. Clinical manifestations of MMS are hyperspreak, muscle rigiDity, after of mental status, and evidence of automotive instability (respirate). Partice mental status, and evidence of automotive instability (respirate) preserve, teachquardi, diaphoresis, and cardiac dyshythmia). Additional signs may include elevated creative phosphosicnase, myopichinuma (holdowski), and acute neutal failure. The disprote evaluation of potents with this syndrome is complication. In animing at a diagnosis, it is important to exclude cases where the clinical preservice hondules both scince medical illuses (preservice), synstemic infliction and untreased or indeguate/y treated evaragementicity signs and untreased or indeguate/y treated evaragementicity signs and angentors (EFS). Other important considerations in the differential diagnosis include contral anticholinergic toxichy, heat stroke, drug fever, and original prevention include in the indeguate/y treated evaluation of theory.

and primary cen tral nervous system pathology.

and primary contral nervous system pathology. The management of NMS should include: 1) immediate discontinuetion of antipsycholic drugs and other drugs not essential to concurrent therapy; 2) intervise synthmatic treatment and medical monitoring; and 3) treatment of any concomfant serious medical problems for which specific treatments are available. There is no general agreement about specific pharmacological treatments for uncomplicated NMS. If a patient requires antipsycholic drug treatment after recovery from NMS. The potential monitorities of drug therapy should be carefully considered. The patient should be carefully monitored, since recurrences of NMS have been reported.

Tardire Dyskinesia - A syndrome of potentially ineversible, involuntary, dyskinetic movements may develop in potients treated with antipsycholic drugs. Mitouch the prevalence of the syndrome aspectrs to be highest among the oldority, especially eldorfy women, it is impossible to rely upon prevalence estimates to prodict, at the inception of antipsycholic treatment, which patients are likely to develop the syndrome. Methan antipsycholic drug products differ in their potential to ecase tardire dressification are involved. The syndrome and therefore antipsycholic drugs products differ in their potential to ecase tardire dressification and innovati. The risk of developing tarche dyskinesia and the Betilmont But it will become inversible are believed to increase as the curstion of treatment and the total cursultariv does of antipsycholic drugs administered to the patient increase. However, the syndrome can develop, although the syndrome can develop, although the syndrome and method syndromes. There is no known treatment for established cases of lardire dyskinesia, although the syndrome may remit, particip or completely if antipsycholic treatment is withdrame. Antipsycholic treatment, may suppress or practicity suppress the signs and syndroms of the syndrome and, threely, may puscible mask. But underlying process. The effect that symptomatic suppression has upon the korp-term course of the syndrome is infraorm.

symptomate oppresson may up the originate tools of the synchrone to unknown. Given these considerations, ASLEY (angingment) should be preserved for patients who suffer from a chronic illness that (1) is known to respond to anticycluble drugs and (2) for whom alternative, opually eleroserved for patients who suffer from a chronic illness that (1) is known to respond to anticycluble drugs and (2) for whom alternative, opually eleroserved for patients who suffer from a chronic illness that (1) is known to respond to anticycluble drugs and (2) for whom alternative, opually elerotive, but potentially less harmful resiments are not available or appropriate. In patients who do require drunic treatment, the smallest drose and the shortest dumition of treatment producing a satisfactory circum respond should be sought. The need for continued treatment should be reasersed periodically. If signs and symptoms of tartive dyskinesia appear in a potient on ABLLPY, drug discontinuation should be considered. However, some patients may require treatment with ABLEPY despite the presence of the autohemes. of the syndrome.

of the syntaxine. Hyperplycemia and Diabetes Mellitus - Hyperplycenia, in scane cases extreme and associated with ketoacidosis or hyperotronolar come or dept, tas been reported in patients treated with adpoint adiopscholics. There have been few reports of hyperplycemia in patients treated with ABUEY (see ADRESS ERACINDS) Although lewer patients have been treated with ABUEY (it is not known if this more limited caperinero is the scie reserve for the parcety of scient reports. Assessment of the relationship between adpoint adiopscial adiopscholic use and plucose adnormalities is complicated by the possibility of an increased background risk of diabetes mellius in patients with Schliophnesia and the increasing incidence of d risk of

We she reacting the possibility of an increased background risk of diabetes mellius in patients with Schlaphrenia and the increasing incidence of diabetes mellius in the general population. Given these continuotes, the relationship between applicat antisystelicities and hyperphycemia-related adverse verits is not competitively understock. However, epidemiological strates which did not incidue ASLPY suggest an increased risk of treasment-emergent hyperphycemia-related adverse events in patients treaded with the applical antipsycholics included in these studies. Because ABLEP was not marketed at the time these studies were performed, it is not known if ABL PY susceided with this increased risk of semantas for typerphycemia-etailed adverse events in patients treaded with applical antipsycholics and an Alabete. Patients with an established diagnosis of diabetes melitus (e.g. observations), this increases and ink Precise risk adjusces acoustic. Patients with risk factors for diabetes melitus (e.g. observations), then are standed on applical antipsycholics about the montrees and the molecular of glucose control. Patients with risk factors for diabetes melitus (e.g. observations) are not available. Patients who develop synothmor of hipposylvermia during treatment and periodicatily during treatment. Any patient treated with applical antipochotics should be montered for symptome of hypersylvermia including polytopics, polytopic, polytopia, and westness some cases, hyperphysensis - activation with the suppoch entitis and applical antipochotics around during failed by them the applical antipochotics around antipolication of the support of undergo failed by during failed by them the applical antipochotic around undergo failed applications of diabetes entities with a special antipochotics around antipolications failed by them the application of anti-diabete. Treatment despite discontinuation of the suspect drug.

Orthostatic Hypotension - Aripipranie may cause orthustatic hypotensian, perhaps due to its or advenergic receptor antagonism. The incidence of orthostatic hypotension-associated events from shart-term, placebo-controlled trials of adult patients on oral ABLEPY (n=1894) included (aripiprazole incidence, placebo incidence): orthostatic hypotension (1.2%, 0.3%), postural dizainess (0.6%, 0.4%), and syncope (0.6%, 0.5%)

Aripipracele should be used with caution in patients with known cardiovascular disesse (history of myocardial infaction or ischemic heart disesse, that failure or conduction abnormalities), cerebrovacoular disesse, or conditions which would predispose patients to hypotension (dehydration, hypovolumia, and treatment with anthypotensive medications).

SeizeneyComutations - h shart-term, plancho-controlled trials, seizures/comutations occurred in 0.2% (2/1834) of adult petients treated with oral angiprazole. As with other antipsycholic drugs, anjoinzade should be used cautiously in patients with a history of seizures or with conditions that 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.

co years or user. Potential for Cognitive and Notor Impairment - ABUFY, like other antipoychotics, may have the potential to impair judgment, thinking, or motor skills, For example, in short-term, placeto-controlled trials, sommlance incidence induction sedaton, was reported as follows fairpinancie incidence, placeto insistence): in adult patients (in=1894) thetad with oral ABUFY (11%, 7%). Despite the relatively modet increased incidence of these verifs compared to placetob, potentia should be cautomod about operating instantous machinery, including automobiles, until they are reasonably

certain tract metropy with ABILIPY does not affect them adversely. Body Temperature Regulation - Discustion of the body's ability to induce core body temperature has been attributed to antipoycholic opena: Appropriate care is advised when prescribing arbitracide for patients who will be experiencing conditions which may contribute to an elevation in core body temperature, (e.g. exercising streamough, exposure to enforme heat, receiving concombant medication with articholinergic activity, or being subject to dehydration (see ADVERSE REACTIONS).

tering subject to desystration) jsee ADVERSE REACTIONS). Suicide - The possibility of a suicide attempt is inherent in psychotic illnesses, Bipotar Disorder, and Major Depressive Disorder, and close supervision of the/nets patients should accompany rough therapy. Prescriptions for ABLEY's should be written for the smallest quaritity consistent with good patient management in order to reduce the risk of overtose *[see ADVERSE REACTIONS]*. In two Evene's placebo controlled studies of antipiprazole as adjunctive treatment of Major Depressive Disorder, the incidences of suicidal ideation and suicide attempts were 0% (0371) for anjoprazole and 0.5% (2366) for placebo. Dysphage - Recipropol dysmottly and augustation have been associated with adjuspholic drug use, including ABLEYL Aspiration pneumonia is a common cases of monthly and monthily in elderty polients, in particular tince with advanced Anteimer's dementia. Actionate and other artipsycholic drugs should be used castionary in patients at his far aspiration pneumonia (see MAMMISS AND PRECAMIDINS and AURSER FEACURE).

anapyrous uses as one resolution proteins in text in experience presentation and per investmentation related build obstrates choosing Use in Patients with Concernital Illness - Clinical experience with ABLIFY in patients with certain concentrated systemic Illness is I imited for USE III SPECIFIC POPULATIONS ABLIFY has not been evaluated or used to any appreciable ender in patients with aresent instanty of myocardial infarction or unstable heart disease. Patients with these diagnose were excluded from premarketing clinical studies fore WARNASS SEPARATION.

AND PREVAILANDS: ADVERSE ERCENTIONS: Overall Adverse Reactions Profile - The following are discussed in more detail in other sections of the tabeling (see Buard IMANING and IMANINSS AND PRECAUTIONSS) Use in Eldeviry Fadersh with Dementia Related Psychocis, Clinical Worsening of Depression and Suicide Risk: Neurologitic Malignent Syndrome (NMS): Tardive Dyskinesia; Hyperglavemia and Diabeter Melliux, Orthostatis Hypergravity, Secures/Orthostance, Potential for Cognitive and Midor Impairment; Dody Temperature Regulation; Suicide, Dysphagia; Use in r lise in Patients with Concomitant Illness.

Praterio wan ourcomain inness. The most common adverse reactions in adult patients in clinical trials (»10%) were reausea, vomiting, consilipation, beadache, dioziness, aixathisia, anxiety, incomnia, and restiesoness. Antipicarele has been evaluated for safety in 15,925 adult potients who participated in multiple-does, clinical trials in Schapphrenia, Bipoter Disorder, Maior Depressive Disorder, and Demnia of the Arthonica's type, and with hold approximately 7482 patients years of exposure to call angiprazole. A total of 3338 patients were treated with onal angiprazole for at least 180 days and 1896 patients treated with onal angiprazole had at least 1 year of exposure.

of exposure. Because drincal 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 spractice. Clinical Studies Experience - Adult Patients Receiving ABILIFY as Adjunctive Treatment of Major Depressive Disorder: The following findings are based on a pool of two placetoc controlled trials ing to 6 weeking of patients with Major Depressive Disorder: The following findings are based on a pool of two placetoc controlled trials ing to 6 weeking of patients with Major Depressive Disorder: The following findings are based on a pool of two placetoc controlled trials ing to 6 weeking of patients with Major Depressive Disorder in which arbitrarial was administered at dozes of 2 mg to 20 mg as adjunctive treatment to continued antidepressant therapy. Adverse Reactions Associated with Discontinuation of Freatment: The incidence of decontinuation dozene to adverse reactions was 5% for adjunctive arbitraria.

anoparate vision particular and a new approximation of the second parameters and the second s stipation, fatigue, and blurred vision

Insomnia, constpation, fatigue, and blurted vision. Less Common Adverse Reactions: The following treatment emergent reactions reported at an incidence of ~2%, rounded to the instruct percent, with adjunctive angiperatole (does >2 mg/dty), and at a groater incidence with adjunctive angiperatole than with adjunctive placeto during short-term lub to 6 weeks), placeto-controlled thisk programs are adjunctive angiperatore. A 20 In ~269, reported water adjunctive angiperatore (JS, 2%), for adjunctive angiperatore (JS, 4%), incenting (JS, 4%), incenting (JS, 4%), incenting (JS, 4%), incenting (JS, 2%), exploring (JS, 4%), upper respiratory tract intelection (JS, 4%), incenting (JS, 2%), weight increased (JS, 2%), inclusion (JS, 2%), weight increased (JS, 2%), inclusion (JS, 2%), adjunction (JS, 1%), houring intery (J%, 1%), theiring intery (J%, 1%), moligia (JS, 1%), and extrapyramidal disorder (J%, 0%), ADT– Anddepressant Therapy. Dess-Rotated Market Research (JS, 2%), adjunction (JS, 1%), hearing intery (JS, 1%), moligia (JS, 1%), and extrapyramidal disorder (J%, 0%), ADT– Anddepressant Therapy.

Dose-Related Adverse Reaction

uses-reserve anterese reactions: Extrapyramidal Symptoms: In the short-term, placebo-controlled trails in Major Dapressive Disorder, the incidence of reported EPS-related conts, excluding enthis related to skathisis, for adjunctive anpproade-treated patients was 8% vs. 5% for adjunctive placebo-treated patients; and the incidence of adathisis related events for adjunctive anpproade-treated patients was 8% vs. 5% for adjunctive placebo-treated patients; Dispetively collected data from those trials was concluded on the Simpson Angue Raina Social for tFSR, the same Avaimas Social for skathisis, and the Assessments of Involuntary Morement Socials (for dyskinesias), In the Major Depressive Disport trias, the sympon Angue Raina Social and the Barres Avaihais Social showed a significant difference between adjunctive adjunctive placebo lengtonaries, 022, placebo, 002, Chargeo in the Assessments of Involuntary Morement Socials and the Barres Avaihais Social showed a significant difference between adjunctive adjunctive placebo lengtonaries, 022, placebo, 002, Chargeo in the Assessments of Involuntary Morement Socials and a displace 1,013 and an engineerable, 022, placebo, 002, Chargeo in the Assessments of Involuntary Morement Socials and a displace placebo adjunctive placebo groups. Provinger: Cases: Filer: Sensitions of declarias, unspaced abnormal contractions of muscle onnors, may occur in suspensibility individuals during and the Barres Assessments of declarias, unspaced abnormal contractions of muscle onnors, may occur in suspensibility individuals during and the Barres Assessments of declarias, unspaced abnormal contractions of muscle onnors, may occur in suspensibility individuals during and the Barres Assessments and during during in during a suspensibility and the suspension of the adjunctive and provinger and the suspension of during in unspaced abnormal contractions of muscle onnors, may occur in suspensibility individuals during and the suspension of the suspension of during and unspace and the suspension

Dystimite: Class Effect: Symptoms of dystenia, prokonged 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 glatines of the treatment searboring difficult, difficult presenting, and/or production of the thouse. While these symptoms can court at low does, they commute thequently and with greater sevenity with high potency and at higher doses of first generation antipsycholic drugs. An elevated risk of acute dystonia is observed in males and younger age groups.

Laboratory Test Abnormalities: In the 6-week trials of aripiprazole as adjunctive therapy for Major Depressive Disorder, there were no clinically important differences between the adjunctive anpprazole-breated and adjunctive placeto-breated patients in the median change from baseline in protectin, fasting glucose, HRL, LDL, or total cholesterol measurements. The median % change from baseline in triglycondes was 5% for adjunctive antipiprazole treated patients w. OK for adjunctive glucobe treated patients.

ight Gain: In the trials adding an ipiprazole to antidepressants, patients first received 8 weeks of antidepressant treatment followed by 6 weeks of adjunctive aripiprazele or placetor in addition to their orgoing anticlepressant treatment. The mean weight gain with adjunctive aripiprazele was 1.7 kg vs. 0.4 kg with adjunctive placebo. The proportion of patients meeting a weight gain criterion of x7% of body weight was 5% with adjunctive aripiprazele compared to 1% with adjunctive placebo.

ECC Changes: Between group comparisons for a pooled analysis of placebo-controlled triais in patients with Major Depressive Disorder revealed no significant differences between oral anpiprazole and placebo in the proportion of patients experiencing potentially important changes in ECC parameters. Aripiprazole was associated with a median increase in heart rate of 3 beats per minute compared to no increase amono placebo patients.

among placebo patients. Other Adverse Reactions Observed During the Premarketing Evaluation of Anjpiprazole: Following is a list of MedDRA terms that reflect adverse reactions as defined in ADVERSE REACT/IONS reported by patients treated with oral anjpiprazole at multiple doses >2 mg/day during any phase of a trut within the database of 12,925 adult patients, oral anpiprazole excluding those events already listed as adverse reactions in other parts of Full Prescripting Interaction, or those considered in WARNINGS AND FRECAUTIONS. Atthough the reactions reported occurred during treatment with anjpiprazole, they were not necessarily caused by it.

Adults: Oral Administration - Bloot and Lymphalic System Disorders: =1/1000 patients and <1/100 patients - leukopenia, neutropenia; <1/1000 patients - Incondocytopenia, agranulocytosis, kiopathic Incondocytopenic purpura; Cardiac Disorders: >1/1000 patients and <1/100 patients - cardiopulmonary failure, bradycardia, cardio-respiratory arrest, atrioventricular block, attuit fibriliation, angina pectoris, bundle parents - canopoundary source, daoycarola, carolo-teprandry artest, antohemicidar coock, and informator, angina percins, ounder branch block, < 1/1000 parents - and intret, vernicular tachycarafic, completa antohemicidar coock, supraventricular tachycardia. Eje Disorders: a 1/1000 patients and <1/100 patients - eyelia deema, photophobia, dispipa, photopesa, <1/1000 patients - excessive brinking; Gastwarinetsina Disorders: a 1/1000 patients - eyelia deema, photophobia, dispipa, photopesa, <1/1000 patients - excessive brinking; Boarders - software, software, and the excessive brinking; Disorders: a 1/1000 patients and <1/100 patients - emobility decreased, face dema, <1/1000 patients - hypothobians; Disorders: a 1/1000 patients and <1/100 patients - hobiestitis, concellinissis, <1/1000 patients - hypothobians; Disorders: a 1/1000 patients and <1/100 patients - hobiestitis, concellinissis, <1/1000 patients - software, software, horis, face and software, horis, face and software, horis, face and horis, and concellinissis, <1/1000 patients - horis, and <1/100 patients - horis, entry (horis), sundice, hiny, (horis), sundic Interdited compensations are not particular that are consistent affective particular and are consistent and are Nutrition Disorders: \$1/1000 patients and <1/100 patients = anorexia, hyperpliptemia, Muscukseletal and Connective Tissue Disorders: \$1/100 patients - muscle spaams; \$1/1000 patients and <1/100 patients - muscle rigidity; <1/1000 patients - muscle spaams; \$1/100 patients - coordination aboornal; \$1/1000 patients - muscle spatient; and connective there of the spatients - muscle spatient; and connective there of the spatients - muscle spatient; and connective there of the spatients - muscle spatient; and connective there of the spatient - model of the spatient - model of the spatient - model - muscle spatient; and connective the spatient - muscle spatient; and connective the spatient - model - muscle spatient; and connective the spatient - model - muscle spatient, muscle spatient, and connective - muscle spatient, and connective, and connective - muscle spatient, and connective, and connective - muscle spatient, muscle muscle - muscle spatient, and connective, and connective - muscle spatient, and muscle muscle spatient, and muscle spatient, and connective - muscle spatient, and muscle - muscle spatient, and muscle - muscle spatient, and - muscle spatient, and - muscle spatient, and muscle - muscle spatient, and - muscle - muscle spatient, and - muscle - mu

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Postmarketing Experience. The following adverso reactions have been identified during post approval use of ABLIPY (argiornatole). Because these reactions are reported voluntarity from a population of uncertain size, it is not always possible to establish a causal relationship to drug exposure: rare courrences of allergic reaction fanghtylactic reaction, angloedema, laryngospasm, pruritus/urticaria, or oropharyngeal spasm), and blood glucose fluctuation.

DRUG INTERACTIONS: Given the primary CNS effects of anipiprazole, caution should be used when ABILIFY is taken in combination with other centrally-acting drugs or alcohol.

Due to its alpha adrenergic antagonism, aripiprazole has the potential to enhance the effect of certain antihypertensive agents

Potential for Other Drugs to Affect ABILIFY - Anipiprazole is not a substrate of CYP1A1, CYP1A2, CYP2A6, CYP2B6, CYP2C8, CYP2C9, CTP2E1 enzymes. Anoprazole also does not undergo direct glucuronidation. This suggests that an interaction of anoprazole with inducers of these enzymes, or other factors, like smoking, is unlikely. EVP2C19, or EVP2E1 end

Both CYP344 and CYP2D6 are responsible for anipiprazole metabolism. Agents that induce CYP344 (eg. carbamazepine) could cause an increase in anipiprazole clearance and lower blood levels. Inhibitors of CYP344 (eg. keloconazole) or CYP2D6 (eg. quindine, fluoretine, or parometine) can inhibit anipiprazole elimination and cause increased blood levels.

proteiners can innot any parate eminimum and cause increases allow events. Refocuosable and Other CYP2AI Inhibitors: Couldministration of Alectocoasable (200 mg/day for 14 days) with a 15 mg single dose of any practice increased the AUC of any practice and its active metabolite by 63% and 77%, respectively. The effect of a higher ketoconazole dose (400 mg/day) has not been studied. When ketoconazole is given concomitantly with articipazole, the any practice should be reduced to one-half of its normal dose. Other storing inhibitors of CIP3A4 (itsconazole) would be expected to have similar effects and need similar dose reductions, moderate inhibitors (erythromycin, grapetrul jucc) have not been studied. When the CIP3A4 inhibitor is withdrawn from the combination therapy, the artigiprazole dose should be increased.

Commission of the study are adoptable to solvable the intersection. Quinidine and Other CYP206 inhibitors: Coadministration of a 10 mg single dose of anpprazole with quinidine (166 mg/day for 13 days), a potent inhibitor of CYP206, increased the AUC of arbiprazole by 112% but decreased the AUC of its active metabolics, dicydor-arbiprazole, by 35%, Aripiprazole dose should be reduced to one half of its normal dose when quinidine is given concomitantly with arripiprazole. Other significant inhibitors of CYP206, such as flavore or paroutine, would be expected to have similar divises and should lead to similar dose reductors. When the CYP206 inhibitor is withdrawn from the combination therapy, the arbiprazole dose should be increased. When adjunctive ABUFY is administered to patients with Mayor Depressive Disorder. ABUFY should be administered without dosage adjustment as specified in DOSAGE AND ADMINISTRATION (2.3) in full Prescribing Information.

In Disease rein Amministrative (2-3) of the restance monadows. Carbanazapine and Uber CYP3A4 inducers: Coadministration of carbanazapine (200 mg twice daily), a potent CYP3A4 inducers (administration of carbanazapine) and AUC values of both anpiprazole and its active metabolite, disptor anpiprazole (30 mg/day) resulted in an approximate 70% decrease in C₂₋₃ and AUC values of both anpiprazole does should be doubled. Additional does increase should be based on clinical evaluation. When carbanazepine is withdrawn from the combination therapy, the anpiprazole does should be reduced

Potential for ABILIFY to Affect Other Drugs - Aripiprazule is unlikely to cause clinically important pharmacokinetic interactions with drugs metabolized by cytochrome F450 enzymes. In an viso studies, 10 mg/dby to 30 mg/dby doese of aripiprazule tand on significant effect on metabolism by CYP206 (dextormedynation), CYP204 (dextormedynation) and CYP104 (dextormethorptans) usbatates. Additionally, anipprazole and dehydro-aripiprazole did not show potential for altering CYP102-mediated metabolism in vitro.

Alcohol: There was no significant difference between aripiprazole coadministered with ethanol and placebo coadministered with ethanol on performance of cross motor skills or stimulus response in healthy subjects. As with most psychoactive medications, patients should be advised to avoid alcohol while taking ABILIFY

Durasia accurate accu famolidine

Valproate: When valproate (500 mg/day-1500 mg/day) and artipiprazole (30 mg/day) were coadministered, at steady-state the C_{inex} and AU of artipiprazole were decreased by 25%. No dosage adjustment of artipiprazole is required when administered concomitantly with valproate. n arbitrazole (30 mg/day) and valoroate (1000 mg/day) were coadministered, at steady-state there were no clinically significant changes e C_{max} or AUC of valoroate. No dosage adjustment of valoroate is required when administered concomitantly with arbitrazole. in the C

In the case, of Not of valuedate, no doose adjustment of valuedate is required within administence concomitating with adjustance. It was a substrated on the second of the

administration of anipiprace (30 mp/tay) with lithium (900 mp/tay) did not result in clinically significant changes in the pharmacokinetics of lithium. No dosage adjustment of lithium is required when administered concomitantly with anipipracele. Dextomethorphane: Anipiprace ad doses of 10 mp/tay to 30 mp/tay for 14 doys had no effect on destromethorphan's 0-dealkylation to its major metabolite, destronghan, a pathway dopendent on CMP206 activity. Anipiprace also had no effect on destromethorphan's - demethylation to its metabolite. Theretoxymorphinan, a pathway dopendent on CMP344 activity. No dosage adjustment of destromethorphan is required when administered concomitantly with anipipracele.

Wartanin: Aripiprazole 10 mg/stay for 14 days had no effect on the pharmacokinetics of R-wartarin and S-wartarin or on the pharmacokynamic: end point of hiermational Normalized Ratio, indicating the tack of a clinically relevant effect of aripiprazole on CVP2C9 and CVP2C19 metabolism or the binding of highly protein-bound warfarin. No dosage adjustment of warfarin is required when administered concomitantly with aripiprazole.

Omeprazele: Aripiprazele 10 mg/day for 15 days had no effect on the pharmacokinetics of a single 20 mg dose of omeprazele, a CYP2C19 substrate, in healthy subjects. No dosage adjustment of omeprazele is required when administered concomitantly with anipiprazele.

Lorazepam: Coordininstration of lorazepam injection (2 md) and anipiprazole injection (15 md) to healthy subjects (n=40: 35 males and 5 females; ages 19-45 years old) did not result in clinically important changes in the pharmacokinetics of either drug. No dosage adjustment of aripiprazole is required when administered concomitantly with lorazepam. However, the intensity of sedation was greater with the combination as compared to that observed with anipiprazole alone and the orthostatic hypotension observed was greater with the combination as compared to that observed with lorazepam alone (see WAANINGS AND PRECAUTIONS).

Escitalopram: Coadministration of 10 mg/day oral does of amperatole for 14 days healthy subjects had no effect on the steady-state pharmacokinetics of 10 mg/day escitalopram, a substrate of C/P2C19 and C/P2A4. No doeage adjustment of escitalopram is required when azole is added to escitalopram

Wendataxine Coodministration of 10 mg/day to 20 mg/day oral doses of aripiprozole for 14 days to healthy subjects had no effect on the steady-state pharmacokinetics of ventatoxine and 0-desmethylventatoxine following 75 mg/day ventatoxine XR, a CYP2D6 substrate. No dosage adjustment of ventatoxine is required when aripiprozole is added to ventatoxine.

Fluoxetine, Paroxetine, and Sortraline: A population pharmacokinetic analysis in patients with Major Depressive Disorder showed no substantial change in plasma concentrations of fluoxetine (20 mg/day or 40 mg/day), paroxetine CR (37.5 mg/day or 50 mg/day), or sertraline (100 mg/day) or 150 mg/day) dosed to steady-state. The steady-state plasma concentrations of fluoxetine and norfluoxetine increased by about 10% and 36%. on the impulsion of the stand stands of the stand stands of the stands o

USE IN SPECIFIC POPULATIONS: In general, no docage adjustment for ABILIFY (aripigrazole) is required on the basis of a patient's age, gender, race, smoking status, hepatic function, or ronal function [see DOSAGE AND ADMINISTRATION (2.5) in Full Prescribing Information].

Pregnancy Category C: There are no adregate and well-controlled studies in pregnant women. Adjoprace should be used during pregnancy only if the potential benefit outweighs the potential risk to the fetus. In animal studies, anjoprazole demonstrated developmental toxicity, including possible teratogenic effects in ratis and rabbits.

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

Nursing Mothers - Artipiprazole was excreted in milk of rais during lactation. It is not known whether anipiprazole or its metabolites are excreted in human milk. It is recommended that women receiving aripiprazole should not breast-feed. Pediatric Use - Safety and effectiveness in pediatric patients with Major Depressive Disorder has not been established.

Geriatric Use - In formal single-close pharmacokinetic studies (with aripipcarde given in a single close of 15 mg), aripipcarde clearance v 20% lower in elderly ("65 years) subjects compared to younger adult subjects (18 to 64 years). Also, the pharmacokinetics of aripiprazole a multiple doses in eldeny patients appeared similar to that observed in young, healthy subjects. No dosage adjustment is recor elderly patients (see also BOXED WARNING and WARNINGS AND PRECAUTIONS).

where yourns per also back involved and involved and involved proceedings. Of the 12.925 patients treated with cell anipiprazole in clinical trials. 1061 (0%) were z65 years old and 799 (0%) were z75 years old. The majority (97%) of the 799 patients were diagnosed with Dementia of the Atheimer's type. Placebo-controlled studies of cell anipiprazole in Major Depressive Disorder did not include sufficient numbers of subjects aged 65 and over

Placebo-controlled studies of call an operace in Major Depressive Useroer on nor include sumcerin numeurs or audyous aged to a new over to determine whether they response differently trony younger subjects. Renal Impairment - In patients with severe renal impairment (creatinine clearance <30 mL/min). C_{max} of an ipprazole (given in a single dose of 15 mg) and dehydro-anigrazote increased by 30% and 35%, respectively, but AUC was 15% former for an ipprazole (given in a single dose dehydro-anigrazote. Renal exercision of both unchanged anigorazote and dehydro-anigorazote is less than 1% of the dose. No dosage adjustment is required in subjects with renal impairment.

Hepatic impairment - In a single-does study (15 mg of anpiorazole) in subjects with varying degrees of liver circlesses (Child-Pugh Classes A, 8, and C), the AUC of anjpiorazole, compared to healthy subjects, increased 31% in mild HI, increased 8% in moderate HI, and decreased 20% in severe HI. None of these differences would require dose adjustment.

in sovere NL Note or meso energices would require occe auguarnom. Gender - Compand ALC of antigrande and its active metabolite, delydro-anjoprazole, are 30% to 40% higher in women than in men, and correspondingly, the apparent coal desizace of arbiprazole is tower in women. These differences, however, are strept explained by differences in body weight (25%) between men and women. No dosage adjustment is recommended based on gender. Race - Although no spocific pharmacokinetic study was conducted to investigate the effects of race on the disposition of anipprazole, population pharmacokinetic evaluation revealed no evidence of clinically significant race-related differences in the pharmacokinetics of aninearovie. No dosage adjustment is recommended based on nace. aripiprazole. No dosage adjustment is recommended based on race.

Smoking - Based on studies utilizing human liver enzymes in vitro, aripiprazole is not a substrate for CYP1A2 and also does not undergo direct ation. Smoking should, therefore, not have an effect on the pharmacokinetics of anpipriazole. Consistent with these in introresults, pharmacokinetic evaluation did not reveal any significant pharmacokinetic differences between smokers and nonsmokers. No justment is recommended based on smoking status. alucuro rulation pha

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

Abuse and Dependence. Anglise the internet is that a controlling assume the studied in humans for its potential for abuse, tolerance, or physical dependence. While the clinical trials did not reveal any tendency for any drug-seeking behavior, it is not possible to predict on the basis of this limited experience the extent to which a CNS active drug will be masted, diverted, and/or abused once markedd. Patients should be evaluated carefully for a history of drug abuse and closely observed for signs of ABULPT missice on abuse.

Vertication of variation of the state of the

Management of Overdosage: No specific information is available on the treatment of overdose with anyiprazole. An electrocardiogram should be obtained in case of overdosage and if OT interval protongation is present, canfac monitoring should be instituted. Otherwise, management of overdose should concentrate on supportive therapy, maintaining an adequate airway, corygenation and ventilation, and management of overcose should concentrate on supportive therapy, maintaining an adequate arway, corgenation and ventilation, and management of symptoms. Cose medical supervision and monitoring should continue until the gatenit recovers. Characoat in the event of an overclose of ABILIFY, an early characoal administration may be useful in partially preventing the absorption of anipiprazole. Administration of 50 g of activated characoal, one hour after a single 15 mg oral dose of anipiprazole, decreased the mena AUC and C_{ount} of anipiprazole by 50%. Nemodialysis: Although there is no information on the effect of henolialysis in treating an overdose with anipiprazole, hemodialysis is unlikely to be useful in overdose management since araptrazole is inply bound to plasma proteins. PATIENT DOUISELUNG INFORMATION: Physicians are advised to discuss the following issues with patients for whom they prescribe

ABILIFY: [See Medication Guide in Full Prescribing Information.] Increased Mortality in Elderty Patients with Dementia-Related Psychosis - Advise patients and caregivers of increased risk of death [see WARNINGS AND PRECAUTIONS].

ical Worsening of Depression and Suicide Risk - Alert families and caregivers of patients to monitor for the emergence of agitation. initiability, unessel changes in behavior, suicidality, and other symptoms as described in the WARNING AND PRECAUTIONS and the report such symptoms immediately. Advise patients and their families and caregivers to read the Medication Guide and assist them in understanding its contents (see WARNINGS AND PRECAUTIONS).

understanding its commiss per inversions and intercentionsy. Interference with Gagnitive and Motor Performance - Bocause aripiprazole may have the potential to impair judgment, thinking, or motor skills, patients should be cautioned about operating hazardous machinery, including automobiles, until they are reasonably certain that aripiprazole therapy does not affect them adversely (see WARNINGS AND PRECAUTIONS).

Pregnancy - Patients should be advised to notify their physician if they become pregnant or intend to become pregnant during therapy with ABILIFY [see USE IN SPECIFIC POPULATIONS].

Nursing - Patients should be advised not to breast-feed an infant if they are taking ABILIFY [see USE IN SPECIFIC POPULATIONS]. Concomitant Medication - Patients should be advised to inform their physicians if they are taking, or plan to take, any prescription or over-the-counter drugs, since there is a potential for interactions [see DRUG INTERACTIONS].

Alcohol - 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 avoiding overheating and dehydration [see WARWINGS AND PRECAUTIONS].

Sugar Content - Patients should be advised that each mL of ABILIFY Oral Solution contains 400 mg of sucrose and 200 mg of fructose.

Angent Ventions - Freedoms show we conserve that each me, or Polici F free online of white 4 works of the original of the following amounts: 10 mg - 1.12 mg phenylatanine and 15 mg - 1.86 mg phenylatanine.
 Tablets manufactured by Otsuka Pharmaceutical Co. Ltd. Tokyo, 101-6535 Japan or Bristol-Myers Soubb Company, Princeton, NJ 08543
 USA Vallay Disintegrating Tablets, Oral Solution, and Injection manufactured by Distol-Myers Soubb Company, Princeton, NJ 08543
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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 (eg, 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.

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once-daily VENLAFAXINE_HCI EFFEXOR XR[®] EXTENDE

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

Suicidality and Antidepressant Drugs

Succidarity and Antidepressant Urugs Antidepressants increased the risk compared to placebo of suicidal thinking and behavior (suicidality) in children, addescents, and young adults in short-term studies of Major Depressive Disorder (MDD) and other psychiatric disorders. Anyone considering the use of EFFEXOR KR or any other antidepressant in a child, addescent, 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 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 term ys 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. EFFEXOR XR is not approved for use in pediatric patients. (See WARNINGS: Clinical Worsening and Suicide Risk, PRECAUTIONS: Information for Patients, and PRECAUTIONS: Pediatric Use.) CONTENUMENTIONS: Merciantic and the prevention of the prevention of a neuroprised to a not communication with the prescriber. EFFEXOR XR is not approved for use in pediatric patients. (See WARNINGS: Clinical Worsening and Suicide Risk, PRECAUTIONS: Information for Patients, and PRECAUTIONS: Prediatric Use.) CONTENTIONENTIONS: Intermenting the use for provident patient of the formulation.

Families and caregivers should be advised of the need for Glose observation and communication with the prescriber. EFFEXDR XR is not approved for use in pediatric patients. Gee WARNINGS: Clinical Worsening and Suicide Risk, PRECAUTIONS: Information for Patients, and PRECAUTIONS: Pediatric Use.)
CONTRAINDICATIONS: Hypersensitivity to venlafaxine hydrochloride or to any excipients in the formulation. Concomitant use in patients taking monoamine oxidase inhibitors (MAOIS): WARNINGS: 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 or the emergence of suicidal ideations, and this risk may persist until significant remission occurs. Suicide is a known risk of depression adult the emergence of suicidal ideations. The poled analyses of short-term placebo-controlled trials of antidepressants during the early phases of treatment. Pooled analyses of short-term transion occurs behavior (suicidality) in children, adolescents, and young adults (age 18-24) with MDD and other psychiatric disorders. Short-term studies did not show an increase in the risk of suicidal in antidepressants of pacebo in adults beyond age 24; there was a reduction with antidepressant compared to placebo in adults aged 65 and older. The pooled analyses of placebo-controlled trials in adults with MDD or other psychiatric disorders included a total of 24 short-term trais (mediane). The psychiatric disorders included a total of 24 short-term trais of 9 antidepressant drugs in over 77.000 patients. There was considerable variation in risk of suicidality among drugs, but a tendency, however, were relatively stable within age strata and across indication should be reductin trials (median coress should be alerted about the need to monitor patients for the emergence of agitation, irritability, numusaid 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 caregives. Prescriptions for Effevor XR 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 Sing Dipolar Disorder: A major depressive episode may be the initial presentation of bipolar disorder. It is generally believed 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, such screening should include a detailed psychiatric history, including a family history of suicide, bipolar disorder, and baryension. Effevor XR is not approved for use in treatment, journal and the metal solution of the patients with epression. Potential for Interaction with MADIs—Adverse reactions, some serious, have been reported in patients wito recently discontinued a MADI and screation of potential life threatening sonotin syndrome, esizures, and death. Effevor XR is should be allowed after stopping venlatische before starting an MADI. Ar within at least 14 days of discontinuing treatment with a MADI. At least 7 days should be allowed after stopping venlatische before starting and MADI. Ar within a theory XR with genomination with a mADI. Ar within at least 14 days of discontinuing treatment with a MADI. Ar within a theory XR with genomination with a mADI. A within the above and the stopping venlatische before starting an MADI. Ar within the above and the stopping weilafacture before starting and MADI. Ar within a stopping weilafacture before the stopping weilafacture before the stopping weilafacture before the stopping weilafacture before starting and MADI. Ar within at least

The number of provides of the difference between theorem and expected growth mate was brager for children - 1/ years of the single of the difference higher of the differen

testment and consider taporing. Effects XR in the third kinester. Labor, Delivery, Narsing—The effect on labor and description unsing or to discontinue the drug, kaling riso account the importance of the drug but much a window to the studies of the drug have the drug kaling riso account the importance of the drug but much set effect on the drug the drug kaling riso account the importance of the drug but here the studies and the drug kaling riso account the importance of the drug but here the studies and the drug kaling riso account the importance of the drug but here the one provid, drug kaling riso account the importance of the drug but here the studies and riso account of the drug kaling riso account the importance of the drug but here the studies and riso account of the drug kaling riso account the importance of the drug but here the studies and riso account of the drug kaling riso account of the studies and riso account of the drug kaling riso account of the studies and riso account of the drug kaling riso account of the studies and riso account of the studies account of the studies account of the riso account of studies and riso account of studies account of the studies account of the riso of studies account of the studies account of the riso account of the studies account of the studies account of the studies account of the riso account of the studies account of the studies account of the studies account of the riso account of the studies account of studies account of the studies account of the riso account of the studies account of studies account of the studies account of the studies account of the studies account of studies account of the studies account of the studies account of studies account of the studies account of the studies account of studies account of studies account of studies account of studies of suicide risk factors than SSNI-treated patients. The extent to which the finding of an increased risk of fatal outcomes can be attributed to the toxicity of ventrative in overdosage as opposed to some characteristic(s) of ventrative-treated patients is not clear. Treatment should consist of those general measures employed in the management of overdosage with any anticepresant. Ensure an adequate airway, ovgreantion and ventilation. Monitor cardiac rhythm and vital signs. General supportive and symptomatic measures are also recommended. Induction of emessis is not recommended. Gastric awage with a large bore orogastric tube with appropriate airway protection, if needed may be indicated if performed soon after ingestion or in symptomatic patients. Activated charcoal should be administered. Due to the large volume of distribution of this drug, forced diuresis, dialysis, hemoperfusion, and exchange transfusion are unlikely to be of benefit No specific antidotes for ventratavine are known. In managing overdosage, consider the possibility of multiple drug involvement. Consulter contacting a poison control center for additional information on the treatment of overdosage Telephone numbers for certified poison control centers are listed in the Physician Des Meterence" (PDR). DDSAGE AND **ADMINISTRATION**: Consult full prescribing information for dosing instructions. **Switching Patients to or From an AVADI**—At least 1 4 days should elapse between discontinuation of an MAOI and initiation of therary with Effector XR. At least 7, days should be allowed after stopping Effexor XR before starting an MAOI (see **CONTRAINDOI**).

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

231275-01

EASTERN VIRGINIA MEDICAL SCHOOL (EVMS) has initiated a search for a talented faculty member at the rank of Assistant or Associate Professor in the Department of Psychiatry and Behavioral Sciences. EVMS is located in a beautiful, coastal area of Virginia in the second largest metropolitan area in the state.

This is a full-time position in a department that has a major commitment to clinical, educational and teaching activities. Clinical responsibilities include inpatient treatment, consultations, and emergency room evaluations at Sentara Norfolk General Hospital, as well as outpatient services at Eastern Virginia Medical School's Department of Psychiatry and Behavioral Sciences. Teaching responsibilities include education and supervision of psychiatric residents and medical students, as well as students from related disciplines, including Psychology and Art Therapy.

The position will also emphasize participation in research activities within an academic culture, which places EVMS at the forefront of mental health advances. Currently the EVMS Department of Psychiatry includes 21 full-time faculty members, and the Residency Training Program has 16 residents and is fully accredited by ACGME. The successful candidate should have the ability to significantly contribute to the tripartite mission of education, research and patient-centered quality care. Eastern Virginia Medical School encourages all inquiries and all applications will be held in strictest confidence. Qualified applicants will be reviewed in the order in which their applications are received, and the process will continue until the current position is filled. Please send letters of interest, accompanied by three letters of reference, to:

Paul Sayegh, MD, Vice-Chair **Department of Psychiatry and Behavioral Sciences** Suite 710, Hofheimer Hall 825 Fairfax Avenue Norfolk, VA 23507 fax: 757-446-5918 Inquiries may also be addressed to sayeghpa@evms.edu.

EVMS is an AA/EOE/Drug Free Workplace

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CHILD AND ADOLESCENT PSYCHIATRIST Branford, Connecticut

The Hospital of Saint Raphael, a 500-bed community teaching hospital that has an excellent multi-disciplinary clinical staff, is seeking a part-time Child and Adolescent Psychiatrist to join our team. You will be joining our outpatient service area of the Child & Adolescent Psychiatry Division, which includes an established inpatient unit and two Partial Hospital Programs that have been expanded to include a site in Branford, CT. This position will provide direct clinical care and team leadership at the Branford site.

We offer competitive compensation and a comprehensive benefits package. Please send inquiries to Daniel Koenigsberg, MD, Chairman, Department of Psychiatry, Hospital of Saint Raphael, 1450 Chapel Street, New Haven, Connecticut 06511; or email to dkoenigsberg@srhs.org.

➡ Hospital of ■ Saint Raphael

www.srhs.org|career

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Diagnosis: schizophrenia

- Effectively treats the symptoms of schizophrenia
- Well-established tolerability profile

GEODON is indicated for the treatment of schizophrenia.

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.

Individual results may vary.

Please see brief summary of prescribing information on adjacent page.

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

Target 120–160 mg/day with meals —initiate at 40 mg/day —lowest effective dose should be used

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 short-term schizophrenia trials, the most commonly observed adverse events associated with GEODON at an incidence of $\geq 5\%$ and at least twice the rate of placebo were somnolence and respiratory tract infection. In short-term schizophrenia clinical trials, 10% of GEODON-treated patients experienced a weight gain of $\geq 7\%$ of body weight vs 4% for placebo.



BRIEF SUMMARY. See package insert for full prescribing information.

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 trials (modal duration of 10 weeks) in these patients revealed a risk of death in the drug-treated patients of between 1.50. Trimes that seen in placebo treated patients. Over the ocurse of a typical 10 week controlled trial. The rate of death in drug-treated patients or 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 cardiovescular (e.g., heart failure, sudden death) or indectious (e.g., pneumonia) in nature. CEODON (ziprasidone) is not approved for the treatment of patients with Dementia-Related Psychosis.

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

In the end of calculation planets in the constraint of space many set of the constraints of the end of the constraints of the c adrenergic antagonist properties. Syncope was reported in 0.6% of GEODON patients. GEODON should be used with particular caution in patients with known cardiovascular disease or conditions that would predispose patients to hypotension (dehydration, hypovolemia, and homomatiles), cerebrovascular disease or conditions that would predispose patients to hypotension (dehydration, hypovolemia, and treatment with anihypertensive medications). <u>Seizures</u>, in clinical trials, seizures occurred in 0.4% of GEODON patients. There were confounding factors that may have contributed to seizures in many of these cases. As with other antipsycholic drugs, GEODON should be used cautiously in patients with a history of seizures or with conditions that potentialy lower the seizure ellersshuld, e.g. Alfenime's dementia. Conditions that lower the seizure threshold may be more prevalent in a population of 65 years or older. <u>Dysplagal</u>, Scophogei dysmotily and aspiration have been associated with antipsycholic drug use. Aspiration prevening is a common cause of morticity. Ecophogei dysmotily and aspiration. **Related Psycholics**. <u>Hypoteneotic terms</u>, <u>a cell sear</u> <u>bowed</u> WARNING, <u>WARNINGS: Increased Muntally in Liderity Patients with <u>Demontian</u>. **Felted Psycholics**. <u>Hypoteneotic terms</u>, <u>a seization</u> non-morting is a common cause of morticity debuted be used cautiously in patients at risk for capitation pneumonia. [See also <u>Bowed WARNING</u>, <u>WARNINGS: Increased Muntally in Liderity Patients</u> with <u>Demontiant</u>. <u>The conduction of the there should be used cautiously doubted be used cautiously doubted be used cautiously doubted be used cautiously in patients in the prescription of these entrys conducted of the there should an applicent with <u>a providential in Bohery Patients</u> with <u>Demontiant</u>. <u>State conducted or date that approximately one third of human broast cancers are protectin dependent in vitro. a factor of potential importance if the prescription of these drugs is contermibated in a patient with previously doub</u></u></u> program leves in numers, tesse cause experiments representation and approximately one and with the evidous's detected and proceeding of the set of control of the set of the set of control of the set of the set of control of the set of control of the set of the set of control of the set of control of the set of control of the set of the set

ments. Low serum potassium and magnesium should be repleted before treatment. Patients who are started on diuretics during the contrarter is the second management of the second seco perspend or measurements is courties (see warmings), *Implantations* (1) (security should be used when it is taken in combination with their centrally acting drugs. (3) Because of its potential for inducing hypotension, GEODON may enhance the effects of certain antitypertensive agents. (4) GEODOM may antaponia the effects of levologia and department agents. Effect of <u>Other Drugs on GEODON</u>; Chromanappen, 200 mg bid for 21 days, resulted in a decrease of approximately 35% in the AUC of <u>GEODON</u>. *Neteconacole*, a potent inhibitor of CYP3A4, 400 mg of for 5 days, increased the AUC and C_{amp} of <u>GEODON</u> by about 35%. -0%, *Cantelatine* 200 mg of for 2 days, *idl not* affect 000 mg partices, *idl not* affect 000 mg and (approximately 35%) in the AUC of <u>GEODON</u>. *Neteconacole*, a potent inhibitor of CYP3A4, 400 mg of for 5 days, increased the AUC and C_{amp} of <u>GEODON</u> by about 35%. -0%, *Cantelatine* 200 mg of for 2 days, *idl not* affect 000 mg partices and the second of the second of the second of the second of the second opportunities and the second of the second opportunities of the second opportunities and the second opportunities and the second opportunities and the second opportunities and the second opportunities of the second opportunities and the second opportunities and the second opportunities of the second opportunities and the second opportuniti In one strain of S. typhimuminum the absence of metabolic activation. Positive results were obtained in both the in vitro mammafian cell gene mutation assay and the in vitro chromosomal aberration assay in human hymphocyties. Impairment of Emility, GEODON increased time to copulation in Sprague-Dewiley rats in two terility and early emilyoric development studies at doose of 10 to 160 mg/kg/tay (0 5 to 8 times the MRHO of 200 mg/tay on a mg/m' basis). Fernitry rate was reduced at 160 mg/kg/tay (8 times the MRHO on a mg/m' basis). There was no effect on territity at 40 mg/kg/day (2 times the MRHO on a mg/m' basis). The fernitry of ternate rats was reduced. Pregnancy Category C: There are no adequate and well-controlled studies in pregnant woman. GeODON should be used during pregnancy-*Pregnancy Category C:* There are no adequate and well-controlled studies in pregnant woman. GeODON should be used during pregnancy-lis unknown. *Nursing Mothers:* It is not known whether, and it so in what amount. (EOCOON or the metabolites are excreted in human mit, is unknown. *Nursing Mothers:* It is not known whether, and it so in what amount. (EOCOON or is metabolites are excreted in human mit, is unknown. *Nursing Mothers:* It is not known whether, and it so in what amount. (EOCOON or is metabolites are excreted in human mit, exclamation preference). 2.4% (103) were To been estabilished. *Geriatric Use:* Of the approximately 4500 patients treated with GEODON in clinical studies, 2.4% (103) were System of age or over. In general, there was no indication of any different tolerability for GEODON, or cause poore holerance or diffusional what mith all hold to considerability of Actever Findings source that and cardu immoting during the initial dosing period for some elder by testins. *Nutress Returned of Activers Finding Oscie*, shower thatain, and cardu immoting during the initial dosing period for some elder by testins. pharmacodynamic response to 65000M, or cause poore toterance or untilosiasis, should heat to consideration of a tower stating dose, sower thating, and caretin mentioning during the liait dosing period for some detry bytionies. ADVFRSE REACTIONS — Adverse Findings Observed in Short-term, Placebo-Controlled Trials: The following findings are based on the short-term placebo-controlled prenarketing trials for schoophrenia (a pool of two 6-week, and two 4-week tweet-dose trais) and bipotar mainta (a pool of two 3-week finable), to the short-term placebo-controlled prenarketing in which 6EUD0N was administed in doses ranging from 100 ± 200 mg/dyX. *Adverse F wents Associated with Discontinuation:* Schoophrenia: Approximately 4.1% (29/702) of GED00N-treated patents in short-term, placebo-controlled studies discontinuad treatment due to an adverse event, compared with babut 2.2% (6/273) on placebo. The most common event associated with organ Marian Approximately 5.5% (19/27) of GED0N-treated patients (%) compared to no placebo patients (see PREAUTIONS). Biogram Marian Approximately 6.5% (19/279) of GED0N-treated patients in short-term, placebo-controlled studies discontinued treatment due to an adverse event, compared with babut 2.2% (6/273) on placebo. The most common event associated with dropout lowar rash, including 7 dropout sfor rash among GED00N treated patients (%) compared to no placebo patients (see PREAUTIONS). Biogram Maria: Approximately 6.5% (19/279) of GED00N-treated patients in short-term, placebo-controlled studies discontinued treatment due to an adverse event, compared to a placebo. The most common event associated with dropout lowar rash, including 7 dropout sfor rash among GED00N produces the site streat response to a placebo. The site of the GED00N-treated due to an adverse adverted adverted adverted adverted adverted rash constraint due to an Adverse event, compared with about 3.7% (\$173) on placebo. The most common events associated with droppout in the GCDONI-treated patients were adultisia, anxiety, depression, dizziness, dystomia, rash and vorniting, with 2 dropputs for each of these events among GEODON patients (1%) compared to me placebo patient each to dystomia and rash (1%) and no placebo patients for the remaining adverse events. Adverse Events at an Incidence 35% and at Least Turice the Rate of Placebo: The most commonly dissaved adverse events associated the start of the remaining adverse events. Adverse Events at an Incidence >5% and at Least Turice the Rate of Placebor. The most commonly observed adverse events associated with GEODON's schizophrenia trabs were sommolence (14%) and respiratory tract infection (8%). The most commonly observed adverse events events associated with the use of GEODON in plotting main traits were sommolence (15%), entryprintial symptoms (31%), diztenses (16%), acathesia (10%), abnormal vision (9%), asthemia (6%), and vomiting (5%). The following list enumerates the treatment-emergent adverse events that occurred during acute therapy, including only those events that occurred in 2% of GEODON in potents and at a greater incidence than in placebo. Schizophrenie: <u>Body as a Whole</u>—sistemia, accidential injury, cheet pain. <u>Cardiovascular</u>—tachycordia. Digstine—nausea, constitution (visiophrenie): <u>Body as a Whole</u>—esthemia, accidential injury, cheet pain. <u>Cardiovascular</u>—tachycordia. <u>Digstine</u>—nausea, desclipation, tract infection, rhinitis, cough increased. <u>Skin and Appendiages</u>—rash. lungal dermatilis. <u>Special</u> <u>Seeses</u>—ahormal vision. Biophornel: <u>Body as a Whole</u>—headoch, asthemia, accidential injury. Cardiovascular—hypertension. <u>Digstine</u>—mausea, darintea, dry mouth, vomiting, increased salvation, torque derma, drysphagi. <u>Musculoskiettar</u>, <u>hypertohis, dryspea</u>. <u>Skin and Appendages</u>—fungal dermatilis. <u>Special</u> <u>Seeses</u>—ahormal vision. <u>Dore Bogenutency</u>: An analysis for dose response in the schizophrenia traits revealed an apparent relation of adverse everent to dose for the following: asthemic, postimal syna, and schinals, anary directionse, disclipsia, directionse, event the todowing castineria, postimal syna, and schineria, and adverse evert to dose for the following schineria, postimal typiss, and adverse everts on the schineria postimal typiss, and adverse evert to dose for the following: asthemic, and the annexia, dure at schineria traits revealed an apparent relation of adverse evert to dose for the following: asthemic postimal typiss, and adverse sommetrice, extragrammetal symptoms, duzmess, automs, avoid y, ripostinesia, speech loscoffer, <u>Hstprittom</u>—Pharyngles, Orgonea, <u>Stain and Apprentings—Intral elementitis, Speech and apparent relation of adverse event to dose for the following astheria, postual hypothesis, and autommal vision. <u>Descriptions and the esponse in the schoophrenia trais revealed an apparent relation of adverse event to dose for the following astheria, postual hypothesis, and autommal vision. <u>Descriptions (PS)</u>: The incidence of riported EPS for GEOON patients in the stort-term, placebo-controlled schizophrenia trais was 14% vs 8% to placebo. <u>Descriptions (PS)</u> the incidence of riported EPS for GEOON apparents in the stort-term, placebo-controlled schizophrenia trais was 14% vs 8% to placebo. <u>Descriptions (PS)</u> the incidence of the GEODN and placebo. <u>Descriptions</u> (Prolonged admonstal contractors of muscle and younger age verify with high potency and a thigher doses of first generation antipsycholic drugs. <u>Elevator (risk is observed in males and younger age verify with high potency and a thigher doses of first generation antipsycholic drugs. <u>Belvator (risk is observed in males and younger age verify with high potency and a thigher doses of list generation of 10% of both patients). A median weight gain to 10.5 kp vas observed in GEOON patients (GEODON patients) (10%) vs placebo patients (%), A median weight gain of 0.5 kp vas observed in GEOON patients (GEOON patients). Weight Gain: In short-term schizophereia traids, the generate machine of the gain additional traids (Risk GEOON) and bacebo patients (%). A median weight gain a do the highest incidence of clinically significant weight gain of 1.5 kp vas sinder (MI) placebo patients (%). Dusk of potences inter (GEOON) and the highest incidence of clinically significant weight gain of 1.5 kp vas sinder (MI) abacebo patient (%). Dusk of potences inter (GEOON) and the highest incidence of clinically significant weight gain of 1.5 kp vas sinder (MI) abacebo patient (%). Dusk of poten</u></u></u></u> withdrawal syndrome, buccoglossal syndrome, choreoathetosis, diplopia, incoordination, neuroparty, interguent paralysis; Rare:myoclonus, nystagmus, toricoliis, circumoral paresthesia, opisthotonos, reflexes increased i trismus. <u>Respiratory System</u> Prepuent: typene:, interguent poeurocnu, opistos; Rare: hemophysis, taryngismus, <u>Sain and Appendages</u> — Infequent mount rash, urticaria, alopecia, eczema, endolative dermatitis; contact dermatitis; vesiculobulous rash. <u>Special Sones</u> — *Mequent*: fungal dormatitis; *Interguent* conjunctives, dy-yes, trinning, biophartis; contact dermatitis; vesiculobulous rash. <u>Special Sones</u> — *Mequent*: fungal idermatitis; *Interguent* conjunctives, dy-yes, trinning, biophartis; contact dermatitis; oversiculobulous; Rare: vehemorrhaga, vesual feid detect, leratate, leratoroniunctivitis. <u>Uropenital System</u> — *Infrequent*: impotence, abnormal ejaculation, amorgasmia, dy-cosuria: Rare: oynecomasta, vaginal hemorrhaga, nociria, oliguni; Amale sexual dy-sfunction, uterine hemorrhaga. *Mexerse*: **Finding Deservel in Trials of Intermuscular GEODOM:** In these studies, the most commonly observed adverse events associated with the use of intramuscular GEDDOM (2007). GEDDON: In these studies, the most commonly observed adverse events associated with the use of intramuscular GEODON (in the higher dose groups) all least twice that of the lowest intramuscular GEODON (in the higher dose groups) all least twice that of the lowest intramuscular GEODON (in the higher dose groups) and at least twice that of the lowest intramuscular GEODON (in the higher dose groups) and at least twice that of the lowest intramuscular GEODON (in the higher dose groups) and at least twice that of the lowest intramuscular GEODON (in the higher dose groups) and at least twice that of the lowest intramuscular GEODON (group, Bgdy as a Whole—head che (13%), adverse events that occurred in a 1% of GEODON the lowest intramuscular GEODON group. Bgdy as a Whole—head che (13%), adverse events that occurred in a 1% of GEODON (group, Bgdy as a Whole—head che (13%), adverse events that occurred in a 1% of GEODON (group, Bgdy as a Whole—head che (groups) and at least twice that of the lowest intramuscular GEODON group. Bgdy as a Whole—head che (groups), insomnia, somehene, back grin, <u>and/wascular</u>—postural hypotension, hypertension, bradycardia, vascottarian, <u>somethena</u>, somethena, groups), insomnia, somehene, back grin, <u>and/wascular</u>—postural hypotension, top/direcha wascular, blags an over the source the lowest intramuscular GEODON was a consequence, back grints, <u>and/wascular</u>—head syndroma, hypertension, bradycardia, vascottarian, somethene, ataking, aghtatin, actimativa adaptation, attrapyramidal syndroma, hypertension, conserving direcha vascular, and the source that a somether adaptation of the lowest and adaptation of the lowest and adaptation. The source of the lowest and the source of the

Officer U.S. Pharmaceuticals

Revised January 2008

Control acute agitation with GEODON for **Injection** (ziprasidone mesylate)

In schizophrenia... Rapid control* with low EPS¹⁻⁴

- Low incidence of movement disorders¹⁻⁴
- Smooth transition, with continued improvement, from IM to oral therapy^{3,4}
- May be used concomitantly with benzodiazepines^{2,3,5}

* 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.

BRIEF SUMMARY. See package insert for full prescribing information.

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 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 intectious (e.g., neuronnia) in nature. GE0DON (ziprasidone) is not approved for the treatment of patients with Dementia-Related Psychosis.

NDICATIONS—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 in schizophrenic patients.

CONTRAINDICATIONS — QT Prolongation: Because of GEODON's dose-related prolongation of the QT interval and the known association of fatal arrhythmias with QT prolongation by some other drugs, GEODON is contraindicated in patients with a known history of QT 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, guinidine, other Class Ia and III anti-arrhythmics, mesoridazine, thioridazine, chlororomazine, droperidol pimozide sparfloxacin gatifloxacin moxifloxacin halofantrine mefloguine pentamidine arsenic trioxide levomethadylacetate dolasetror prince so particular, and a source of the so plaintactorylating testing and rate minimized become in individual with a known hypersensitivity to the product. WARNINGS (see WARNINGS). GEODON is contraindicated individuals with a known hypersensitivity to the product. WARNINGS antipsycholic drugs are at an increased risk of death compared to placebo. GEODON (ziporsidione) 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. Such drugs should not be prescribed with GEODON. A study directly comparing the QT/QT, prolonging effect of GEODON with several other drugs should not be prescribed with GEODON. A study directly comparing the QT/QT, prolonging effect of GEODON with several other drugs should not be prescribed with GEODON. A study directly comparing the QT/QT, prolonging effect of GEODON with several other drugs should not be prescribed with GEODON. A study directly comparing the QT/QT, prolonging effect of GEODON with several other drugs for approximately 9 to 14 msec greater than for four of the comparator drugs (risperidone, olanzapine, quetiapine, and happerido), but was approximately 14 msec less than the prolongation observed for thriordzine. In this study, the effect of GEODON on QT, 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 miters and 1/440 (0.23%) placebo platents revealed 01, intervals caceling 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/TO, rinerval have been associated with the occurrence of tonscele do planeta owith sudden unexplained death. The relationship of OT/To, rolongations to revase is clearest for larger increases (20 msec and greater) bit it is possible that smaller QT/QT, prolonga (see WARNINGS), GEODON is contraindicated in individuals with a known hypersensitivity to the product, WARNINGS—Increased Since of VLC proving autois may asso more see first, on the case of this susceptute intervolutis, such as those with hyportagement, hypomagnesement, or genetic predisposition. Although horsade de pointes has not been observed in association with the use of GEDDDN at recommended doses in premarketing studies, experience is too limited to rule out an increased risk. A study evaluating the 07/07, prolonging effect of intramuscular GEDDDN, with intramuscular haloperiold 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 GEDDDN (20 mg then 30 mg) or haloperiol (7.5 mg then 10 mg) given four hours apart. Note that a 30 mg dose of intramuscular GEDDD, with experiments of SS % higher than the trecommended therapeutic doses. The mean change in 01, from baseline was calculated for each drug using a sample-based correction that removes the effect of heart rate on the 01 interval. The mean increase in 01, from baseline for GEDDDN as 4 moses collowing 6. Once the first injection and 12.8 msec following the second injection. The mean increase in QT, from baseline for haloperiod was 6.0 msec following the first injection and 14.7 msec following the second injection. The mean increase in QT, from baseline for haloperiod 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 taking GEODON at nace: A submit of the important of the presence of the presenc Herefinetess, eEUDors is larger protongiation of ut, jerging Holingare to server a other antipsycholic urugs i assess me possibility needs the risk of sudden death may be greater for EEODON than for other available drugs for treading schoophenia. This possibility needs to be considered in deciding among alternative drug products. Certain circumstances may increase the risk of the occurrence of torsade de pointes and/or sudden death in association with the use of drugs that prolong the 0T, interval; and (4) presence of congenital prolongation of the 0T interval. EEODON should also be avoided in patients with congenital long 0T syndrome and in patients with a patients being considered for GEDOON treatment who are at risk for significant electrolyte disturbances, hypokalemia in particular, patients being considered for GEDOON treatment who are at risk for significant electrolyte disturbances, hypokalemia in particular, patients being considered for GEDOON treatment who are at risk for significant electrolyte disturbances, hypokalemia the difficant patients being considered for GEDOON treatment who are at risk for significant electrolyte disturbances, hypokalemia the difficant patients being considered for GEDOON treatment who are at risk for significant electrolyte disturbances, hypokalemia in particular, patients being considered of the CDDD in treatment with or a crist for significant electropy to statutates, inpostantian and magnesium measurements. Hypokalemia (and/or hypomagnesemia) may increase the risk of OT prolongation and arrythmia, Hypokalemia may result from diuretic therapy, diarrhea, and other causes. Patients with low serum potassium and/or magnesium should be repleted with those electropy to the statutates. Information of the statutation of the stat 4. A protogram, and a protogram is a provide the second and a protocol and a p 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 antipsychoid drug treatment after recovery from NMS, the potential introduction of drug therapy should be carefully considered. The patient should be carefully considered. The pa amore controls of working of the determined of the second se treament, which patients are likely to develop 1D. It signs and symptoms of 1D appear in a patient on te-DUOW, ordig discontinuation should be considered. Hyperglycemia and Diabetes Mellinitis: Hyperglycemia events, same teres events, same teres events, same teres events, and teres events, and the patients treated with appical antipsychotics. There have been few reports of hyperglycemia or diabetes in patients treated with appical antipsychotics. There have been few reports of hyperglycemia considered with an appical antipsychotic should be monitored for symptoms of hyperglycemia, and its associated with these events. Patients treated with an appical antipsychotic should be monitored for symptoms of hyperglycemia, events and/or unclearly the second streams. There are the second streams and/or unclearly 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 for the several patients with rash had signs and symptoms of associated for the several patients with rash had signs and symptoms of associated for the several patients with rash had signs and symptoms of associated for the several patients with rash had signs and symptoms of associated for the several patients with rash had signs and symptoms of the several patients with a streams with applications or sterring and for unconstructions or sterring and s systemic illness, e.g., elevated WBCs. Most patients improved promptly upon treatment with antihistamines or steroids and/or upon discrimination of GEDDDI, and all patients where ported promptly plot a cambra minimation must be to do a during the discrimination of GEDDDI, and all patients where ported to recover completely. Upon appearance of ranks for which an alternative etiology cannot be identified, GEDDDI way induce orthostatic hypotension associated with dizziness, tachycardia, and, in some patients, syncope, especially during the initial dose-titration period, probably reflecting its α_r with uzariess, danya data, and, and in some patients, syncope especially during the mital observing to data period, provident end of the syncope was reported in 0.6% of GEODON patients. GEODON should be used with particular caution in patients with known cardiovascular disease (history of myocardial inflarction or ischemic heart disease, heart failure or conduction abnormalities), cerebrovascular disease or conditions that would predispose patients to hypotension (dehydration, hypovolemia, and and manues), ceremovascular usease or Conductors Segures in chinical trials, seizures ocurred in 0.4% of GEODON patients. There were confounding factors that may have contributed to seizures in many of these cases. As with other antipsychotic drugs, GEODON should be used cautiously in patients with abitory of seizures or with conditions that potentially lower the seizure threshold e.g. Atheimer'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 motifulty and mortality in eldedry patients, in particular throse with advantee dicheimer's dementia, and GEODON and other antipsychotic drugs should be used cautiously in patients with a sits for aspiration pneumonia. (See also Boxed WARNING, WARNINGS: Increased Martality Pletty Patients). with Demnita Related Psychol Schuler and the second s Neither clinical studies nor epidemiologic studies conducted to date have shown an association between chronic administration of this class of drugs and unnear sources for exploration of the source trians, solimoletice was reported in 14% of GEUDUW patients Vs /% of placedo patients. Somnoletice teat to discontinuation in 0.3% of patients in short-ferm clinical trials. Since GEDODN 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 GEDODN therapy does not affect them adversely. <u>Praginn</u>: Dne case of priapsim was reported in the premarketing database. <u>Body Temperature Regulation</u>: Although not reported with GEDDON in premarketing trials, disruption of the body's ability to reduce core body temperature has been attributed to antipsychotic agents. <u>Suicide</u>: The possibility of a suicide attempt is inherent in psychotic illness and close supervision of high-risk patients should accompany drugtherapy. GEDODN reconcisioned in the dody de burtist for the possibility of the possibility of a suicide attempt is inherent in psychotic illness and close supervision of high-risk patients should accompany drugtherapy. GEDONN prescriptions should be written for the smallest quantity of capsules consistent with good patient management to reduce overdose risk Use in Patients with Concomitant Illness: Clinical experience with GEODON in patients with certain concomitant systemic illnesses is limited GEODON has not been evaluated or used to any appreciable extent in patients with a recent history of myocardial infarction or unstable hear disease. Patients with these diagnoses were excluded from premarketing clinical studies. Because of the risk of QT, prolongation and orthostatic hypotension with GEODON, caution should be observed in cardiac patients (see **OT Prolongation and Risk of Sudden Death** in WARNINGS and Orthostatic Hypotension in PRECAUTIONS). Information for Patients: To ensure safe and effective use of GEODON, the

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 QT_e measurements >500 msec (see WARNINGS). Drug Interactions: (1) GEODON should not be used with any drug that prolongs persistent of measurements sour mises (see WARNINGs), *Durg interactions*? (1) GEUDOW should not be used Winking drug that priorings the OT interval. (2) Given the primary CNS effects of GEDODV, action should be used when it is taken in combination with other centrally acting drugs. (3) Because of its potential for inducing hypotension, GEODON may enhance the effects of certain antihypertensive agents. (4) GEDODN may antagonize the effects of levodopa and doparnine agonists. <u>Effect of Other Drugs on GEODON</u>, catarinazapine, 200 mg bid for 21 days, increased the AUC and C_{mix} of GEODON tay about 35%-40%. <u>Cimetidine</u>, 800 mg dot 27 days, did not affect GEODON pharmacokinetics. Population pharmacokinetics analysis enclosioned in the interval of a multi direct for the next revision with our direct direction between the interval enclosioned in the interval method in the direct of the next revision with our solitics. Propulation pharmacokinetics analysis of schizophrenic patients in controlled clinical trials has not revealed any clinically significant pharmacokinetic interactions with benztropine, propranolo, or forazepam. <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 CYP142, CYP205, CYP2C19, CYP2C19, CYP204, and Other potential for drug interactions with GEODON due to displacement. GEODON 40 mg bid administered concomitantly with *lithium* 450 mg bid for 7 days did not affect the steady-Showed that GEDDON tid not alter the metabolism of *deutomethorphan*, a CYP2D6 model substrate, to its major metabolite, deutorphan. There was no increase in incidence of tumors relative to controls. In female mice there were dose-related increases in the incidences of the mice set of the tumors of tumors and tumors are and tumors and pituliary 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 the carcinogenicity study. The relevance for human risk of the findings of prolactin-mediated endocrine tumors in rodents is unknown (see <u>Hyperprolactinemia</u>). <u>Mutagenesis</u>: There was a reproducible mutagenic response in the Ames assay tained and the second s A three to explanation more than when the train and the construction of the provided of the pr only if the potential benefit justifies the potential risk to the fetus. Labor and Delivery: The effect of GEODON on labor and delivery in humans is unknown. Nursing Mothers: It is not known whether, and if so in what amount, GEODON or its metabolites are excreted in human milk. It is 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 24% (109) were 65 years of age or over. In general, there was no indication of any different loterability for GEODON or of reduced learance 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, brain addition and careful monitoring during the india 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 fixed) e-dose trials) in which GEODON was administered in doses ranging from 10 to 200 mg/day. Adverse Events Associated with Discontinuation: In which be DDDN was administered in losses ranging into 11 to 200 migray. Anverse events Associated with Dscommandom: Schizophrenia Approximately 41% (29/202) of GEDDON-treated patients in short-term, placebo-controlled studies discontinued treatment due to an adverse event, compared with about 2.2% (6/273) on placebo. The most common event associated with dropout was rash, including 7 dropouts for rash among GEDDON treated patients in short-term, placebo-controlled studies discontinued treatment due to an adverse event, compared with about 3.7% (5/136) on placebo. The most common event associated with dropout in the GEDDON-treated patients in short-term, placebo-controlled studies discontinued treatment due to an adverse event, compared with about 3.7% (5/136) on placebo. The most common events associated with dropout in the GEDDON-treated patients were akathisia, axiety, depression, dizziness, dystonia, rash and vorniting, with 2 dropouts for each of these events among GEDDON. patients five containing a thore, a capter such activity of the standard set of the st (16%), akathisia (10%), abnormal vision (6%), asthenia (6%), and vomiting (5%). The following list enumerates the treatment-emergent adverse events that occurred during acute therapy, including only those 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 Incoence train in piaceboo. Schizophremia <u>Booy as a whole</u>—asthema, ascolentai njury, chest pain. <u>Landovasculat</u>—tachycarola. <u>Digestive</u>—maxes constipation (sysepsia, diartea, dym outh, anorexia, <u>Nervous</u>—extrapyranida Symptoms, somnolence, akathisia, <u>Senses</u>. <u>Bespiratory</u>—respiratory traci infection, rhinitis, cough increased. <u>Skin and Appendages</u>—rrash, fungal dermatitis, <u>Special</u> <u>Senses</u>—abnormal vision. Bipolar Mania: <u>Body as a Whole</u>—headache, asthenia, accidental injury, <u>Carcilovascular</u>—hypertension. <u>Digestive</u>—nausea, diarribea, dym couth, vomiting, increased salivation, tongue derma, dysphagia. <u>Mucculoskeletal</u>—myadja, <u>Nervous</u>— somnolence, extrapyramidal symptoms, dizziness, akathisia, anxiety, hypesthesia, speech disorder. <u>Bespiratory</u>—paryngitis, dyspinae. <u>Skin and Appendages</u>—fungal dermatitis. <u>Special Benses</u>—abnormal vision. **Doze Dependence**; An analysis for dose response in the schizophrenia trials revealed an apparent relation of adverse event to dose for the following: asthenia, postural hypotension, anorexia, dry schizophrenia trials revealed an apparent relation of adverse event to does for the following: asthenia, postural hypotension, ainorexia, dyp mouth, increased salvakion, arthraiga, anxiety drzinese, dystolnia, hypertonia, somolenea, ternor, rhinitis, rash, and abnormal vision. Extrapyramidal Symptoms (EPS): The incidence of reported EPS for GEODON patients in the short-term, placebo-controlled schizophrenia trials was 14% vs 8% for placebo. Objectively collected data from those trials on the Simpson-Angus Rating Scale and the Barnes Akathisia Scale did not generally show a difference between GEODON and placebo. Urial Sign Changes: GEODON is associated with orthostatic hypotension (see PRECAUTIONS). Weight Gain: In short-term schizophrenia trials, the proportions of patients meeting a weight gain (10%) vs placebo patients (4%). A median weight gain of 0.5 kg was observed in GEDODN patients voltage triang trade and y weight gain for GEDODN patients (10%) vs placebo patients (4%). A median weight gain of 0.5 kg was observed in GEDODN patients voltage triang the anguy with GEDODN, and categorization of patients taxes incidence on the assis of body weight gain and to 0.5 kg was observed in GEDODN patients voltage triang of animality significant regarding and the second regarding and the second regarding and the second regarding and the second regarding and a 1.3 and a 1.3 and a 1.3 kg mean weight loss for patients with a "high" BMI. *ECG Changes*: GEODON is associated with an increase in the QT, interval (see WARNINGS). In schizophrenia trials, GEODON was associated with a mean increase in heart rate of 1.4 beats per minute compared to a 0.2. beats per minute decrease 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 1/100 to 1/1000 patients. Schizophrenia: <u>Body as a Whole</u> — *Frequent*: abdominal pain, flu syndrome, fever, accidental fall, face edema, chills, photosensitivity reaction, flank pain, hypothermia, motor vehicle accident. Cardiovascular System — Frequent tachycardia, hypertension, postural hypotension; Infrequent: bradycardia, angina pectoris, atrial fibrillation; Pare: first-degree AV block, bundle branch block, phlebitis, pulmonary embolus, cardiomegaly, cerebral infarct, cerebrovascular accident, deep Index in process, taken of the second sec Creating indisployment and the set of the uppopulation and a second se <u>Skin and Appendages</u> — Infrequent: maculopapular rash, urticaria, alopecia, eczema, exfoliative dermatitis, contact dermatitis, vesiculobullous rash. <u>Special Senses</u> — *Frequent*: fungal dermatitis; Infrequent: conjunctivitis, dry eyes, tinnitus, blepharitis, catract. photophobia; Rare: eye hemorrhage, visual field defect, keratitis, keratoconjunctivitis. <u>Urogenital System</u>—Infrequent: impotence, abnormal ejaculation, amenorrhae, hematuria, menorrhagia, female lactation, polyuria, urinary retention, metrorrhagia, male sexual dysfunction, anorgasmia, glycocauria; Rare: genecomastia, vaginal hemorrhage, nochuria, oliguria, female sexual dysfunction, uterine hemorrhage. Adverse Finding Observed in Trials of Intramuscular GEDODN: In these studies, the most commonly observed adverse events associated 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 at an Incidence >1% in Short-Term Fixed-Dose Intramuscular Trials: The following list enumerates the treatment-emergent adverse events Hot General International Control International Control Internation International Statements and International Statements and International Control Int our double right mount in the second of GEODON was documented in 10 patients. All patients survived without sequelae. In the patient taking the largest confirmed amount (3240 mg), the only symptoms reported were minimal sedation, slurring of speech, and transitory hypertension (BP 200/95).

References: 1. Daniel DG, Potkin SG, Reeves KR, Swift RH, Harrigan EP. Intramuscular (IM) ziprasidone 20 mg is effective in reducing acute agitation associated with psychosis: a double-blind, randomized trial. *Psychopharmacology*. 2001;155:128-134: 3, Liseem MD, Zajecka JM, Swift RH, Reeves KR, Harrigan EP. Intramuscular ziprasidone, 2 mg versus 10 mg, in the short-term management of agitated psychotic patients. *J Olin Psychiatry*. 2001;61:27:148. 3 troos development of acute exacertation of schizophrenia and schizophrenia and

Introducing A NEW SNRI therapy

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for major depressive disorder in adults



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.
- PRISTIO must not be used concomitantly with an MAOI or within 14 days of stopping an MAOI. Allow 7 days after stopping PRISTIQ before starting an 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 few 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 PRISTIO, 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.

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- 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 functionally¹⁻³
- Discontinuation rate due to adverse events was comparable to placebo in clinical studies at 50 mg¹



- SSRIs and SNRIs, including PRISTIO, 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 PRISTIQ. 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. Pristig[™] (desventataxine) Prescribing Information, Wyeth Pharmaceuticals Inc. 2. Data on file, Wyeth Pharmaceuticals Inc. 3. Sheehan DV. Sheehan Disability Scale. In: Rush AJ Jr. Pincus HA, First MB, et al. eds. *Handbook of Psychiatric Measures*. 1st ed. Washington, DC: American Psychiatric Association; 2000:113-115.

Please see brief summary of Prescribing Information on adjacent pages.

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Pristiq 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 toll-free at 1-800-934-5556.

WARNING: Suicidality and Antidepressant Drugs

Antidepressants increased the risk compared to placebo of suicidal thinking and behavior (suicidality) in children, addescents, 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, addescent, 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 aged 55 and older. Depression and certain other psychiatric disorders are themselves associated with increase in the risk of suicidal to 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. Proteints of 8.4), and Patient Counseling Information (17.1 in the full prescribing information)].

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

Indicated for the treatment of major depressive disorder (MDD). **CONTRANDICATIONS: Hypersonsitivity** Hypersonsitivity to desveniataxine succinate, veniataxine hydrochloride or to any excipients in the Pristig formulation. **Monoamine Oxidase Inhibitors**-Pristig must not be used concomitantly in patients taking monoamine oxidase inhibitors (MAOIs) or in patients who have taken MADIs within the preceding 14 days due to the risk of serious, sometimes fatal, drug interactions with SNRI or SSRI treatment or with other serotonergic drugs. Based on the half-life of desveniataxine, at least 7 days should be allowed after stooping Pristig before starting an MAOI (*see Dosage and Administration (2.5)* in the full prescribing information].

WARNINGS AND PRECAUTIONS: Clinical Worsening and Suicide Risk-Patients with major depressive disorder (MDD), both adult and pediatric, may experience worsening our obtained their depression and/or the emergence of suicidal ideation and behavior (suicidality) or unusual changes in behavior, whether or not they are taking antidepression and certain other psychiatric disorders, and these disorders themselves are the strongest or depression uncertain order by potentiate barrow and a standard products and the analysis of others) showed that these drugs increase the risk of suicidal thinking and behavior (suicidality) in children, adolecents, and young adults (agee 18-24) with major depressive disorder (MDU) 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 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 over 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 (median duration of 2 months) of 11 antidepressant drugs in over 7.7.000 patients. There was considerable variation in risk of suicidality among there, but a bundman, beauding an increase in the wanteer radiation for a months) of 11 initialization of the student of the studento 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 maintanace studies in adults with depression that the use of antidepressants can delay the recurrence of depression. All patients being treated with antidepressants for any indication should be monitored appropriately and observed closely for clinical worsening, suicidality, and unusual changes in behavior, especially during the initial few months of a course of drug therapy, or at times of dose changes, either increases or decreases. The following symptoms, anxiety, agitation, panic attacks, insomnia, initiability, hostility, aggressiveness, linguistry, akathisia (psychomotor restiessness); hypomaina, 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 conservisione. Attouch a curved liek behaven the amergance of evid symptomes and affect the barriers. nonpsychiatric. Although a causal link between the emergence of such symptoms and either the worsening of depression and/or the emergence of sucidal impulses has not been established, there is concern that euch symptoms may represent precursors to emerging sucidality. 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 suicidally or symptoms that might be precursors to worsening depression or suicidally, 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 abrupt discontinuation can be associated with certain symptoms (see Warnings and Precautions (5.9) and Dosage and Administration (2.3) in the full prescribing information for a description of the risks of discontinuation of Pristiq). Families and caregivers of patients being treated with antidepressants for major depressive disorder or other indications, both psychiatric and nonpsychiatric, should be airted about the need to monitor patients for 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 Pristiq should be written for the smallest quantity of tablets consistent with good patient management, in order to reduce the risk of overdose. Screening <u>attents</u> patients for biolond disorder – A maior depressive patients in the initial presentation of biolar disorder. It is energing the initial presentation of biolar disorder. It is energing the emerging the initial presentation of the generality at tablets consistent with good patient management, in order to reduce the risk of overdose. Screening <u>patients</u> for biolond disorder – A maior depressive poised may be the initial presentation of biolar disorder. It is energing the presenting <u>patients</u> for tablets consistent with good patient management. bipplar disorder: A major depressive episode may be the initial presentation of bipplar disorder. It is generally believed (though not established in controlled studies) 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 bipplar alone may increase the likelihood of precipitation of a mixed/manic episode in patients at tisk 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 Pristip is not approved for use in treating bipolar depression. Sectionin Syndrome-The development of a potentially life-Inteacting performs may occur with Pristip treatment, particularly with concomitant use of other section crucic disorder; such a static disorder and the section of the section is adviced for the section of the section of the section is adviced for the section of the section of the section is adviced for the section of the section of the section is adviced for the section of the section of the section is adviced for the section of the section of the section is adviced for the section of the section of the section is adviced for the section of the section of the section is adviced for apoints (tripitan) is clinically warranted, careful observation of the patient is advised, particularly during treatment initiation and dose increases. The concomitant use of Pristig with serotonin precursors (such as tryptophan supplements) is not recommended. **Elevated Blood Pressure**- Patients receiving Pristig should have regular impliciting of blood pressure since dose-dependent increases were observed in clinical studies. Pre-existing hypertension should be controlled before initiating treatment with 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 increases in blood pressure. Cases of elevated blood pressure requiring immediate treatment have been reported with Pristing. <u>SurgetInnel hyperInesion</u>. Sustained blood pressure increases could have adverse consequences. For patients who experience a sustained increase in blood pressure while receiving Pristing either dose reduction or discontinuation should be considered [see Adverse Reactions (6.17)]. Treatment with Pristing in controlled studies was associated with sustained hypertension, defined as treatment emergent supine disatolic blood pressure (SDBP) \geq 90 mm Hg and \geq 10 mm Hg above baseline for 3 consecutive on-therapy visits. In clinical studies, regarding the proportion of patients with sustained hypertension, the following rates were observed; placebo (0.5%). Pristig 00 mg (1.3%), Pristig 100 mg (1.1%), and Pristig 400 mg (2.3%). Analyses of patients in Pristig controlled studies who met criteria for sustained hypertension revealed a diversed result presention of patients with metatore sup development controller studies requiring the proportion of patients with sustained energy and Pristig 400 mg (2.3%). Analyses of patients in Pristig controlled studies who meta criteria for sustained hypertension. 400 mg (2.3%). Analyses of patients in Pristiq controlled studies who met criteria for sustained hypertension. Abnormal Bleeding-SSRIs and SNRIs can increase the risk of bleeding events. Concomitant use of aspirin, other drugs that affect platelet function, nonsteroidal anti-inflammatory drugs, warfarin, and other anticoagulations can add to this risk. Bleeding events related to SSRIs and SNRIs have ranged from ecchymosis, hematoma, epistaxis, and petechiae to life-threatening hemorrhages. Patients should be cattoried about the risk of bleeding associated with the concomitant use of Pristiq and NSRIs, base ranged in association with Pristiq; coagulation or bleeding. Narrow-angle Glaucoma-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. Activation of Mania/Hypomania-During all MDD and WMS (vasomotor symptoms) phase 2 and phase 3 studies, mania was reported for approximately 0.1% of patients treated with Pristin, Activation of maniarhypomania has also been reported in a approximately 0.1% of patients with major affective disorder who were treated with other marketed antidepressants. As with all antidepressants. Pristing should be used cautiously in patients with a history or family thistory of mania or hypomania. Cardiovascular, cerebrovascular, disease-Caution is advised in administering Pristiq to patients with cardiovascular, cerebrovascular disease. Patients with rese diagnoses, except for cerebrovascular disease, use observed in or cerebrovascular disease. Patients with three diagnoses, except for cerebrovascular disease, were excluded from clinical studies. Serum Cholesterol and Triglyceride Elevation-Dose-related elevations in fasting serum total cholestorol. JDL (low density lipoprotein) cholesterol, and triglyceride with Pristig lige Adverse Reactions (6.17). Discontinuation of Treatment with Pristig Discontinuation symptoms have been symptoms that include disculses. Measurement of served usids the appearance of new symptoms that include disculses. Serum Cholesterol and Triglyceride Elevation-Dose-related elevation of therapy. During marketing of SNRS (Serotonin adh Korepinepithire Reuptake Inhibitors) and SSRS (Selective) evaluated in patients the elevation allowed with langet duration of therapy. During marketing of SNRS (Serotonin adh Korepinepithire Reuptake inhibitors) and SSRS (Selective) evaluates (e.g., parettakes, auch as electric chock sensations), moviety, contaion, heddache, lethargy, emotional lability, insomnia, hypomania, hinhus, and seizures. Nuel should be considered of adverse elevestion in the dose rate qenerally self-limitation (S.2.9) in this prescribing information. Ren

Anouse de considered. ADVERSE REACTIONS: Clinical Studies Experience: The most commonly observed adverse reactions in Prixity treated MDD patients in short term fixed does studies (incidence 25% and at least twice the rate of placebo in the 50- or 100-m does groups) were nause, discuess, insomina, hyperhidroxis, constipation, somnohence, decreased appetite, anxiety, and specific male sexual function disorders. Adverse reactions reported as, reasons for discute and vomiling (25 % earls); in the long-term studies, up to 8 weeks, were rauses (4%); dizziness, headback and vomiling (25 % earls); in the long-term studies, up to 8 weeks, were rauses (4%); dizziness, headback and vomiling (25 % earls); in the long-term studies. In operat, the adverse reactors were most frequent the first week of treatment. The most common putties, treatment, the disorders and administration rate conditions: Fabue, Chills, Fordiag, disprates, Chills, Fordy and presence increased, Gastrointeelinal disorders: Nausea, Dry mouth, Darnhea, Constpation, Vomiting, General disorders: Decreased appetite, weight decreased, Nervoux, Paythaton, Tachryarda, Blood pressure increased, Gastrointeelinal disorders: Nausea, Dry mouth, Darnhea, Constpation, Vomiting, General disorders: Decreased appetite, weight decreased, Nervoux, Paythaton, Tachryarda, Blood disorders: Decreased appetite, weight decreased, Nervoux, Paythaton, Tachryator, Horacia, and Hexito-Heradoxeh, Erron, Paraestheia, Distuthance in attention, Paychaitri, Disorders: Hormina, Anverk, Nervouxness, Irritability, Anormal dreams, Benal and, urinary, disorders: Vinary hesitation: Respiratory, horacia, and mediastinal disorders: Naving, Shin and subcurations adverser eractions that accuration takspecific studies, Men Onix, Anorgyamia, Libido decreased, Orgamia anormati, Egucatation desiver eractions adverser eractions that accuration devices restation devices - exito mediastical disorder - Epotatis, Kasular Disorders - Moreations occuring at an incidence of exito in th 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. Altered anticoagulant effects, including increased bleeding, have been perofed when SSRs and SNRs 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 desventataxine does not increase the impairment of mental and motor skills caused by ethanol. However, as with all ONS-active drugs, patients should be advised to avoid actohol consumption while taking Pristig. Pentital for Other Drugs to Affect Desventafaxine–Inhibitors of CYP3A4 (ketoconzace)e- CYP3A4 has result in higher concentrations of Pristig. Pointing of their CYP enzymes- Based on *in vitro* data, drugs that inhibit CYP issymes 1A1, 1A2, 2A6, 2D6, CCR, CCR, CCR, CCR, CCR, CCR, CCR, and CEL are not expected to have significant impact on the pharmacokinetic profile of Pristig, Potential for Desventafaxine to Affect Other Drugs- Drugs metabolized by CYP2D6 (designamine)- *in vitro* studies showed minimal inhibitory effect of desventafaxine on CYP2D6 metabolism at the dese of 100 mg daily. Concomitant use of Pristig with a drug metabolized by CYP2D6 (are result in higher concentrations of hat drug. Drugs metabolized by CYP3A4 (can result in lower exposures to that drug. Drugs metabolized by CYP3A2. CR 2, 2C 20 and 2C 19. *in vitro*, desventafaxine is not a substrate or an inhibitor for the P-glycoprotein transporter. The pharmacokinetics of drugs that are metabolized by UCP1A2, ZA6, 2C, 2C and 2C 19. *in vitro*, desventafaxine is not a substrate or an inhibitor the the Polycoprotein transporter. Heatymosch

moderate and severe hepatic impairment, respectively. No adjustment in starting dosage is necessary for patients with hepatic impairment.

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

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Brief Summarv—see package insert for full prescribing information. ARICEPT® (Donepezil Hydrochloride Tablets) 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 donepezil metabolism *in vitro*. Whether there is a clinical effect of quinidine is not known. In a 7-day crossover study in 18 healthy volunteers, ketoconazole (200 mg q.d.) increased mean donepezil (5 mg q.d.) concentrations (AUC_{n-24} and C_{mm}) 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). Donepezil 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 vere 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 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 ≥65 years old and <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%); Vorniting (<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, tatigue 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 eventsthose 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, ncreased 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, ernor, 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, eve 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); Hyperlipernia (<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: constipation, gastroenteritis, fecal incontinence, dyspepsia; 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_v 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.

START AND STAY WITH ARICEPT®

Indicated for MILD • MODERATE • SEVERE Alzheimer's

Proven Efficacy for Patients...

Improved behavior in mild to moderate AD^{1*}
 Persistent treatment helped delay nursing home placement^{2†}

and Benefits for Caregivers

 Caregivers of ARICEPT patients with mild to moderate AD experienced significantly less distress from patient behavioral problems^{1*}

*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.



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