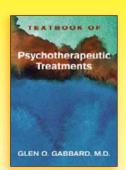
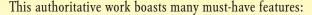
# Effective Treatments and Skill Building in Psychotherapies for the Clinician



# Textbook of Psychotherapeutic Treatments

Edited by Glen O. Gabbard, M.D.





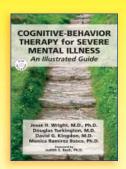
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# SEROQUEL is the only mood-stabilizing atypical approved to control the depressive symptoms of bipolar disorder<sup>1,2</sup>



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

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

For bipolar disorder



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

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

### Important Safety Information for SEROQUEL, continued

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

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

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



### Important Safety Information for SEROQUEL, continued

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

For bipolar disorder

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

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### **SEROQUEL**

(quetiapine fumarate)

**TABLETS** 

**RX ONLY** 

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

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

Elderly patients with dementia-related psychosis treated with atypical antipsychotic drugs are at an increased risk of death compared to placebo. Analyses of seventeen placebo-controlled trials (modal duration of 10 weeks) in these patients revealed a risk of death in the drug-treated patients of between 1.6 to 1.7 times that seen in placebo-treated patients. Over the course of a typical 10-week controlled trial, the rate of death in drug-treated patients was about 4.5%, compared to 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 [see Clinical Pharmacology in full Prescribing Information (12)]. Effectiveness has not been systematically evaluated in clinical trials for more than 8 weeks. Mania The efficacy of SEROQUEL in acute bipolar mania was established in two 12-week monotherapy trials and one 3-week adjunct therapy trial of bipolar I patients initially hospitalized for up to 7 days for acute mania [see Clinical Pharmacology in full Prescribing Information (12)]. Effectiveness has not been systematically evaluated in clinical trials for more than 12 weeks in monotherapy. *Maintenance Treatment in Bipolar Disorder* The efficacy of SEROQUEL as adjunct maintenance therapy to lithium or divalproex was established in 2 identical randomized placebocontrolled double-blind studies in patients with Bipolar I Disorder [see Clinical Studies in full Prescribing Information (14)]. The physician who elects to use SEROQUEL for extended periods in Bipolar Disorder should periodically re-evaluate the long-term risks and benefits of the drug for the individual patient (see **Dosage and Administration**). **Schizophrenia** SEROQUEL is indicated for the treatment of schizophrenia. The efficacy of SEROQUEL in schizophrenia was established in short-term (6-week) controlled trials of schizophrenic inpatients [see Clinical Pharmacology in full Prescribing Information (12)]. The effectiveness of SEROQUEL in long-term use, that is, for more than 6 weeks, has not been systematically evaluated in controlled trials. Therefore, the physician who elects to use SEROQUEL for extended periods should periodically re-evaluate the long-term usefulness of the drug for the individual patient (see Dosage and Administration).

### DOSAGE AND ADMINISTRATION

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

### **Recommended Dosing Schedule**

Day	Day 1	Day 2	Day 3	Day 4
SEROQUEL	50 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 [see Clinical Studies in full Prescribing Information (14)]. Schizophrenia *Usual Dose:* SEROQUEL should generally be administered with an initial dose of 25 mg bid, with increases in increments of 25-50 mg bid or tid on the second and third day, as tolerated, to a target dose range of 300 to 400 mg daily by the fourth day, given bid

or tid. Further dosage adjustments, if indicated, should generally occur at intervals of not less than 2 days, as steady-state for SEROQUEL would not be achieved for approximately 1-2 days in the typical patient. When dosage adjustments are necessary, dose increments/decrements of 25-50 mg bid are recommended. Most efficacy data with SEROQUEL were obtained using tid regimens, but in one controlled trial 225 mg twice per day was also effective. Efficacy in schizophrenia was demonstrated in a dose range of 150 to 750 mg/day in the clinical trials supporting the effectiveness of SEROQUEL. In a dose response study, doses above 300 mg/day were not demonstrated to be more efficacious than the 300 mg/day dose. In other studies, however, doses in the range of 400-500 mg/day appeared to be needed. The safety of doses above 800 mg/day has not been evaluated in clinical trials. Dosing in Special Populations Consideration should be given to a slower rate of dose titration and a lower target dose in the elderly and in patients who are debilitated or who have a predisposition to hypotensive reactions [see Clinical Pharmacology in full Prescribing Information (12)]. When indicated, dose escalation should be performed with caution in these patients. Patients with hepatic impairment should be started on 25 mg/day. The dose should be increased daily in increments of 25-50 mg/day to an effective dose, depending on the clinical response and tolerability of the patient. The elimination of quetiapine was enhanced in the presence of phenytoin. Higher maintenance doses of quetiapine may be required when it is coadministered with phenytoin and other enzyme inducers such as carbamazepine and phenobarbital (see Drug Interactions). Maintenance Treatment While there is no body of evidence available to answer the question of how long the patient treated with SEROQUEL should be maintained, it is generally recommended that responding patients be continued beyond the acute response, but at the lowest dose needed to maintain remission. Patients should be periodically reassessed to determine the need for maintenance treatment. Reinitiation of Treatment in Patients Previously Discontinued Although there are no data to specifically address reinitiation of treatment, it is recommended that when restarting patients who have had an interval of less than one week off SEROQUEL, titration of SEROQUEL is not required and the maintenance dose may be reinitiated. When restarting therapy of patients who have been off SEROQUEL for more than one week, the initial titration schedule should be followed. Switching from Antipsychotics There are no systematically collected data to specifically address switching patients with schizophrenia from antipsychotics to SEROQUEL, or concerning concomitant administration with antipsychotics. While immediate discontinuation of the previous antipsychotic treatment may be acceptable for some patients with schizophrenia, more gradual discontinuation may be most appropriate for others. In all cases, the period of overlapping antipsychotic administration should be minimized. When switching patients with schizophrenia from depot antipsychotics, if medically appropriate, initiate SEROQUEL therapy in place of the next scheduled injection. The need for continuing existing EPS 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 short-term trials of 9 antidepressant drugs in over 4400 patients. The pooled analyses of placebo-controlled trials in adults with MDD or other psychiatric disorders included a total of 295 short-term trials (median duration of 2 months) of 11 antidepressant drugs in over 77,000 patients. There was considerable variation in risk of suicidality among drugs, but a tendency toward an increase in the younger patients for almost all drugs studied. There were differences in absolute risk of suicidality across the different indications, with the highest incidence in MDD. The risk differences (drug vs. placebo), however, were relatively stable within age strata and across indications. These risk differences (drug-placebo difference in the number of cases of suicidality per 1000 patients treated) are provided in Table 1.

### Table 1

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

No suicides occurred in any of the pediatric trials. There were suicides in the adult trials, but the number was not sufficient to reach any conclusion about drug effect on suicide. It is unknown whether the suicidality risk extends to longer-term use, i.e., beyond several months. However, there is substantial evidence from placebo-controlled maintenance trials in adults with depression that the use of antidepressants can delay the recurrence of depression. All patients being treated with antidepressants for any indication should be monitored appropriately and observed closely for clinical worsening, suicidality, and unusual changes

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

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

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

### **ADVERSE REACTIONS**

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

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

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

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

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

Clinical Trials for the Treatment of Schizop	hrenia and Bipolar Mania	a (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	0,0	.,,
Agitation	20%	17%
Somnolence	18%	8%
Dizziness	11%	5%
Anxiety	4%	3%
Respiratory	170	070
Pharyngitis	4%	3%
Rhinitis	3%	1%
Skin and Appendages	J /0	1 /0
Rash	4%	2%
Special Senses	7 /0	∠ /0
	2%	1%
Amblyopia	∠70	I 70

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

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

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

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

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

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

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

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

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

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

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

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 scores, spontaneous complaints of EPS and the use of concomitant anticholinergic medications to treat EPS. In two placebo-controlled clinical trials for the treatment of bipolar depression using 300 mg and 600 mg of SEROQUEL, the incidence of adverse reactions potentially related to EPS was 12% in both dose groups and 6% in the placebo group. In these studies, the incidence of the individual adverse reactions (eg., akathisia, extrapyramidal disorder, tremor, dyskinesia, dystonia, restlessness, muscle contractions involuntary, psychomotor hyperactivity and muscle rigidity) were generally low and did not exceed 4% in any treatment group. The 3 treatment groups were similar in mean change in SAS total score and BARS Global Assessment score at the end of treatment. The use of concomitant anticholinergic medications was infrequent and similar across the three treatment groups. Vital Signs and Laboratory Studies Vital Sign Changes SEROQUEL is associated with orthostatic hypotension [see Warnings and Precautions). Weight Gain In schizophrenia trials the proportions of patients meeting a weight gain criterion of ≥7% of body weight were compared in a pool of four 3- to 6-week placebo-controlled clinical trials, revealing a statistically significantly greater incidence of weight gain for SEROQUEL (23%) compared to placebo (6%). In mania monotherapy trials the proportions of patients meeting the same weight gain criterion were 21% compared to 7% for placebo and in mania adjunct therapy trials the proportion of patients meeting the same weight criterion were 13% compared to 4% for placebo. In bipolar depression trials, the proportions of patients meeting the same weight gain criterion were 8% compared to 2% for placebo. Laboratory Changes An assessment of the premarketing experience for SEROQUEL suggested that it is associated with asymptomatic increases in SGPT and increases in both total

cholesterol and triglycerides. In post-marketing clinical trials, elevations in total cholesterol (predominantly LDL cholesterol) have been observed (see Warnings and Precautions). In placebo controlled monotherapy clinical trials involving 3368 patients on quetiapine fumarate and 1515 on placebo, the incidence of at least one occurrence of neutrophil count <1.0 x 10<sup>9</sup>/L among patients with a normal baseline neutrophil count and at least one available follow up laboratory measurement was 0.3% (10/2967) in patients treated with quetiapine fumarate, compared to 0.1% (2/1349) in patients treated with placebo. Patients with a pre-existing low WBC or a history of drug induced leukopenia/neutropenia should have their complete blood count (CBC) monitored frequently during the first few months of therapy and should discontinue SEROQUEL at the first sign of a decline in WBC in absence of other causative factors (see Warnings and Precautions). Hyperglycemia In 2 long-term placebo-controlled clinical trials, mean exposure 213 days for SEROQUEL (646 patients) and 152 days for placebo (680 patients), the exposure-adjusted rate of any increased blood glucose level (≥126 mg/dl) for patients more than 8 hours since a meal was 18.0 per 100 patient years for SEROQUEL (10.7% of patients) and 9.5 for placebo per 100 patient years (4.6% of patients). In short-term (12 weeks duration or less) placebo-controlled clinical trials (3342 patients treated with SEROQUEL and 1490 treated with placebo), the percent of patients who had a fasting blood glucose ≥126 mg/dl or a non fasting blood glucose ≥200 mg/dl was 3.5% for quetiapine and 2.1% for placebo. In a 24 week trial (activecontrolled, 115 patients treated with SEROQUEL) designed to evaluate glycemic status with oral glucose tolerance testing of all patients, at week 24 the incidence of a treatment-emergent post-glucose challenge glucose level ≥200 mg/dl was 1.7% and the incidence of a fasting treatment-emergent blood glucose level ≥126 mg/dl was 2.6%. ECG Changes Between-group comparisons for pooled placebo-controlled trials revealed no statistically significant SEROQUEL/placebo differences in the proportions of patients experiencing potentially important changes in ECG parameters, including QT, QTc, and PR intervals. However, the proportions of patients meeting the criteria for tachycardia were compared in four 3- to 6-week placebo-controlled clinical trials for the treatment of schizophrenia revealing a 1% (4/399) incidence for SEROQUEL compared to 0.6% (1/156) incidence for placebo. In acute (monotherapy) bipolar mania trials the proportions of patients meeting the criteria for tachycardia was 0.5% (1/192) for SEROQUEL compared to 0% (0/178) incidence for placebo. In acute bipolar mania (adjunct) trials the proportions of patients meeting the same criteria was 0.6% (1/166) for SEROQUEL compared to 0% (0/171) incidence for placebo. In bipolar depression trials, no patients had heart rate increases to >120 beats per minute. SEROQUEL use was associated with a mean increase in heart rate, assessed by ECG, of 7 beats per minute compared to a mean increase of 1 beat per minute among placebo patients. This slight tendency to tachycardia may be related to SEROQUEL's potential for inducing orthostatic changes (see Warnings and Precautions). Other Adverse Reactions Observed During the Pre-Marketing Evaluation of SEROQUEL Following is a list of COSTART terms that reflect treatment-emergent adverse reactions as defined in the introduction to the ADVERSE REACTIONS section reported by patients treated with SEROQUEL at multiple doses ≥75 mg/day during any phase of a trial within the premarketing database of approximately 2200 patients treated for schizophrenia. All reported reactions are included except those already listed in the tables or elsewhere in labeling, those reactions for which a drug cause was remote, and those reaction terms which were so general as to be uninformative. It is important to emphasize that, although the reactions reported occurred during treatment with SEROQUEL, they were not necessarily caused by it. Reactions are further categorized by body system and listed in order of decreasing frequency according to the following definitions: frequent adverse reactions are those occurring in at least 1/100 patients (only those not already listed in the tabulated results from placebo-controlled trials appear in this listing); infrequent adverse reactions are those occurring in 1/100 to 1/1000 patients; rare reactions are those occurring in fewer than 1/1000 patients. Nervous System: Frequent: hypertonia, dysarthria; Infrequent: abnormal dreams, dyskinesia, thinking abnormal, tardive dyskinesia, vertigo, involuntary movements, confusion, amnesia, psychosis, hallucinations, hyperkinesia, libido increased\*, urinary retention, incoordination, paranoid reaction, abnormal gait, myoclonus, delusions, manic reaction, apathy, ataxia, depersonalization, stupor, bruxism, catatonic reaction, hemiplegia; Rare: aphasia, buccoglossal syndrome, choreoathetosis, delirium, emotional lability, euphoria, libido decreased\*, neuralgia, stuttering, subdural hematoma. Body as a Whole: Frequent: flu syndrome; *Infrequent*: neck pain, pelvic pain\*, suicide attempt, malaise, photosensitivity reaction, chills, face edema, moniliasis; Rare: abdomen enlarged. Digestive System: Frequent: anorexia; Infrequent: increased salivation, increased appetite, gamma glutamyl transpeptidase increased, gingivitis, dysphagia, flatulence, gastroenteritis, gastritis, hemorrhoids, stomatitis, thirst, tooth caries, fecal incontinence, gastroesophageal reflux, gum hemorrhage, mouth ulceration, rectal hemorrhage, tongue edema; Rare: glossitis, hematemesis, intestinal obstruction, melena, pancreatitis. Cardiovascular System: Frequent: palpitation; *Infrequent:* vasodilatation, QT interval prolonged, migraine, bradycardia, cerebral ischemia, irregular pulse, T wave abnormality, bundle branch block, cerebrovascular accident, deep thrombophlebitis, 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

<sup>\*</sup>adjusted for gender

which were temporally related to SEROQUEL therapy include: anaphylactic reaction. Other adverse reactions reported since market introduction, which were temporally related to SEROQUEL therapy, but not necessarily causally related, include the following: agranulocytosis, cardiomyopathy, hyponatremia, myocarditis, rhabdomyolysis, syndrome of inappropriate antidiuretic hormone secretion (SIADH), and Stevens-Johnson 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 Quetiapine Phenytoin: Coadministration of quetiapine (250 mg tid) and phenytoin (100 mg tid) increased the mean oral clearance of quetiapine by 5-fold. Increased doses of SEROQUEL may be required to maintain control of symptoms of schizophrenia in patients receiving quetiapine and phenytoin, or other hepatic enzyme inducers (e.g., carbamazepine, barbiturates, rifampin, glucocorticoids). Caution should be taken if phenytoin is withdrawn and replaced with a non-inducer (e.g., valproate) (see Dosage and Administration). Divalproex: Coadministration of quetiapine (150 mg bid) and divalproex (500 mg bid) increased the mean maximum plasma concentration of quetiapine at steady state by 17% without affecting the extent of absorption or mean oral clearance. Thioridazine: Thioridazine (200 mg bid) increased the oral clearance of quetiapine (300 mg bid) by 65%. Cimetidine: Administration of multiple daily doses of cimetidine (400 mg tid for 4 days) resulted in a 20% decrease in the mean oral clearance of quetiapine (150 mg tid). Dosage adjustment for quetiapine is not required when it is given with cimetidine. P450 3A Inhibitors: Coadministration of ketoconazole (200 mg once daily for 4 days), a potent inhibitor of cytochrome P450 3A, reduced oral clearance of quetiapine by 84%, resulting in a 335% increase in maximum plasma concentration of quetiapine. Caution (reduced dosage) is indicated when SEROQUEL is administered with ketoconazole and other inhibitors of cytochrome P450 3A (e.g., itraconazole, fluconazole, erythromycin, and protease inhibitors). Fluoxetine, Imipramine, Haloperidol, and Risperidone: Coadministration of fluoxetine (60 mg once daily); imipramine (75 mg bid), haloperidol (7.5 mg bid), or risperidone (3 mg bid) with quetiapine (300 mg bid) did not alter the steadystate pharmacokinetics of quetiapine. Effect of Quetiapine on Other Drugs Lorazepam: The mean oral clearance of lorazepam (2 mg, single dose) was reduced by 20% in the presence of quetiapine administered as 250 mg tid dosing. Divalproex: The mean maximum concentration and extent of absorption of total and free valproic acid at steady state were decreased by 10 to 12% when divalproex (500 mg bid) was administered with quetiapine (150 mg bid). The mean oral clearance of total valproic acid (administered as divalproex 500 mg bid) was increased by 11% in the presence of quetiapine (150 mg bid). The changes were not significant. Lithium: Concomitant administration of quetiapine (250 mg tid) with lithium had no effect on any of the steady-state pharmacokinetic parameters of lithium. Antipyrine: Administration of multiple daily doses up to 750 mg/day (on a tid schedule) of quetiapine to subjects with selected psychotic disorders had no clinically relevant effect on the clearance of antipyrine or urinary recovery of antipyrine metabolites. These results indicate that quetiapine does not significantly induce hepatic enzymes responsible for cytochrome P450 mediated metabolism of antipyrine.

### **USE IN SPECIFIC POPULATIONS**

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

### DRUG ABUSE AND DEPENDENCE

Controlled Substance SEROQUEL is not a controlled substance. Abuse SEROQUEL has not been 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

which were temporally related to SEROQUEL therapy include: anaphylactic reaction. Other adverse reactions evaluated carefully for a history of drug abuse, and such patients should be observed closely for signs of reported since market introduction, which were temporally related to SEROQUEL therapy, but not necesmisses 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 In case of acute overdosage, establish and maintain an airway and ensure adequate oxygenation and ventilation. Gastric lavage (after intubation, if patient is unconscious) and administration of activated charcoal together with a laxative should be considered. The possibility of obtundation, seizure or dystonic reaction of the head and neck following overdose may create a risk of aspiration with induced emesis. Cardiovascular monitoring should commence immediately and should include continuous electrocardiographic monitoring to detect possible arrhythmias. If antiarrhythmic therapy is administered, disopyramide, procainamide and quinidine carry a theoretical hazard of additive QT-prolonging effects when administered in patients with acute overdosage of SEROQUEL. Similarly it is reasonable to expect that the alpha-adrenergic-blocking properties of bretylium might be additive to those of quetiapine, resulting in problematic hypotension. There is no specific antidote to SEROQUEL. Therefore appropriate supportive measures should be instituted. The possibility of multiple drug involvement should be considered. Hypotension and circulatory collapse should be treated with appropriate measures such as intravenous fluids and/or sympathomimetic agents (epinephrine and dopamine should not be used, since beta stimulation may worsen hypotension in the setting of quetiapine-induced alpha blockade). In cases of severe extrapyramidal symptoms, anticholinergic medication should be administered. Close medical supervision and monitoring should continue until the patient recovers.

### PATIENT COUNSELING INFORMATION

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

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### 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 LUVOX® CR (fluvoxamine maleate) Extended-Release Capsules 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. LUVOX CR Capsules are not approved for use in pediatric patients. (See WARNINGS: Clinical Worsening and Suicide Risk, PRECAUTIONS: Information for Patients, and PRECAUTIONS: Pediatric Use.)

### FOR SOCIAL ANXIETY DISORDER (SAD) AND OBSESSIVE COMPULSIVE DISORDER (OCD)



# NOW YOUR PATIENTS CAN Experience a new release

### Once-A-Day Luvox CR delivers...

- Proven efficacy in SAD and OCD<sup>1-4</sup>
- Weight-neutral profile (no significant weight gain or loss)<sup>1-4</sup>
- Low incidence of sexual adverse events<sup>4</sup>
- Available in 100 mg and 150 mg dose strengths

### Important Safety Information

### CONTRAINDICATIONS

The use of alosetron, tizanidine, thioridazine, or pimozide with Luvox CR Capsules is contraindicated. The use of MAO inhibitors in combination with Luvox CR Capsules, or within 14 days of discontinuing treatment with Luvox CR Capsules, is contraindicated (see WARNINGS and PRECAUTIONS). Luvox CR Capsules are also contraindicated in patients with a history of hypersensitivity to fluvoxamine maleate or any of its excipients.





www.LuvoxCR.com

Please see brief summary of prescribing information on following pages.



 $R_{\scriptscriptstyle ext{only}}$ 

100 mg and 150 mg

Brief summary. See package insert for full prescribing information.

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 LUVOX® CR (fluvoxammaleate) Extended-Release Capsules 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. LUVOXCR Capsules are not approved for use in pediatric patients. (See WARNINGS and PRECAUTIONS.)

INDICATIONS-LUVOX CR (fluvoxamine maleate) Extended-Release Capsules are indicated for the treatment of social anxiety disorder (SAD), also known as social phobia, and for the treatment of obsessions and compulsions in patients with obsessive compulsive disorder (OCD) (both as defined in the DSM-IV) CONTRAINDICATIONS-Co-administration of alosetron, tizanidine, thioridazine, or pimozide; use of MAO inhibitors in combination with or within 14 days of discontinuing treatment with LUVOX CR; use in patients with a history of hypersensitivity to fluvoxamine maleate or any of the excipients. (See WARNINGS and PRECAUTIONS.) WARNINGS — Clinical Worsening and Suicide Risk: Adult and pediatric patients with MDD 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 antidepressants, 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 longstanding 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. The pooled analyses of shortterm placebo-controlled trials of antidepressants (SSRIs and others) showed that these drugs increased the risk of suicidal thinking and behavior (suicidality) in children, adolescents, and young adults (ages 18-24) with 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 ≥65 years. The pooled analyses of placebo-controlled trials in children and adolescents with MDD, OCD, or other psychiatric disorders included a total of 24 short-term trials of 9 antidepressants in over 4,400 patients. The pooled analyses of placebo-controlled trials in adults with MDD or other psychiatric disorders included a total of 295 short-term trials (median duration of 2 months) of 11 antideoressants 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) Include drug-related increases (14 additional cases in patients <18 years old; 5 in 18- to 24-year-olds) and decreases [1 fewer case in 25- to 64-year-olds; 6 fewer cases in patients ≥ 65 years old]. No suicides occurred in any of the pediatric trials. There were solicides in the adult trials, but the number was not sufficient to reach any conclusion about the drug effect on suicide. It is unknown whether the suicidality risk extends to longer-term use, le, 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 (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 MDD as well as for other psychiatric and nonpsychiatric indications. Although a causal link between the emergence of such symptoms and either the worsening of depression and/or the emergence of suicidal impulses has not been established, there is concern that such symptoms may represent precursors to emerging suicidality. Consideration should be given to changing the therapeutic regimen, including possibly discontinuing the medication, in patients whose depression is persistently worse, or who are experiencing emergent suicidality or symptoms that might be precursors to worsening depression or suicidality, especially if these symptoms are severe, abrupt in onset, or were not part of the patient's presenting symptoms. If the decision has been made to discontinue treatment, medication should be tapered, as rapidly as is feasible, but with recognition that abrupt discontinuation can be associated with certain symptoms (see PRECAUTIONS and DOSAGE AND ADMINISTRATION—Discontinuation of Treatment with LUVOX CRI. Families and caregivers of patients being treated with antidepressants for MDD or other psychiatric and nonpsychiatric indications 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. Monitoring should include daily observation by families and caregivers. Prescriptions for LUVOX CR should be written for the smallest quantity of capsules consistent with good patient management to reduce the risk of overdose. Screening Patients for Bipolar Disorder: A major depressive episode may be the initial presentation of bipolar disorder. It is generally believed (though not established in controlled trials) that treating such an episode with an antidepressant alone may increase the likelihood of precipitation of a mixed/manic episode in patients at risk for bipolar disorder. Whether any of the symptoms described above represent such a conversion is unknown. However, prior to initiating treatment with an antidepressant, patients with depressive symptoms should be adequately screened to determine if they are at risk for bipolar disorder; such screening should include a detailed psychiatric history, including a family history of suicide, bipolar disorder, and depression. LUVOX CR is not approved for use in treating bipolar depression Potential for Monoamine Oxidase Inhibitors (MAOIs) Interaction: In patients receiving another serotonin reuptake inhibitor drug in combination with MAOIs, there have been reports of serious, sometimes fatal, reactions including hyperthermia, rigidity, myoclonus, autonomic instability with possible rapid fluctuations of vital signs, and mental status changes that include extreme agitation progressing to delirium and coma. These reactions have also been reported in patients who have discontinued that drug and have been started on an MAOI. Some cases presented with features resembling a serotonin syndrome or neuroleptic malignant syndrome. Therefore, LUVOX CR should not be used in combination with an MAOI, or within 14 days of discontinuing treatment with an MAOI (see CONTRAINDICATIONS). Potential Thioridazine Interaction: The effect of fluvoxamine (25 mg immediate-release [IR] given twice daily [bid] for 1 week) on thioridazine steady-state concentrations was evaluated in 10 male inpatients with schizophrenia. Concentrations of thioridazine and its 2 active metabolites,

mesoridazine and sulforidazine, increased 3-fold following co-administration of fluvoxamine. Thioridazine administration produces a dose-related prolongation of the QTc interval. which is associated with serious ventricular arrhythmias, such as torsades de pointes-type arrhythmias, and sudden death. This experience likely underestimates the degree of risk that might occur with higher doses of thioridazine. Moreover, the effect of fluvoxamine may be even more pronounced at higher doses. Therefore, LUVOX CR and thioridazine should not be co-administered (see CONTRAINDICATIONS and PRECAUTIONS), Potential Tizanidine Interaction; Fluvoxamine is a potent inhibitor of CYP1A2 and tizanidine is a CYP1A2 substrate. The effect of IR fluvoxamine maleate (100 mg daily for 4 days) on the pharmacokinetics (PK) and pharmacodynamics (PD) of a single dose of tizanidine has been studied in 10 healthy male subjects. Tizanidine Cmax was increased -12-fold (range 5- to 32-fold), elimination half-life was increased almost 3-fold, and AUC increased 33-fold (range 14- to 103-fold). The mean maximal effect on blood pressure was a 35 mm Hg decrease in systolic blood pressure, a 20 mm Hg decrease in diastolic blood pressure, and a 4 beat/min decrease in heart rate. Drowsiness was significantly increased and performance on the psychomotor task was significantly impaired. LUVOX CR and tizanidine should not be used together (see CONTRAINDICATIONS and PRECAUTIONS). Potential Alosetron Interaction: Fluvoxamine, an inhibitor of several CYP isozymes, has been shown to increase mean alosetron plasma concentrations (AUC) ~6-fold and prolonged the T14 by ~3-fold. Therefore, it is recommended not to use LUVOX CR in combination with alosetron (see CONTRAINDICATIONS, PRECAUTIONS, and Lotronex™ (alosetron) package insert). Use with Ramelteon: Ramelteon should not be used in combination with LUVOX CR (see PRECAUTIONS: Drug Interactions). Potential Pimozide Interaction: Pimozide is metabolized by the CYP3A4 isozyme. It has been demonstrated that ketoconazole, a potent inhibitor of CYP3A4, blocks the metabolism of this drug, resulting in increased plasma concentrations of parent drug. Increased plasma concentration of plmozide causes QT prolongation and has been associated with torsade de pointes-type ventricular tachycardia, sometimes fatal. A substantial PK interaction has been observed for fluvoxamine in combination with alprazolam, a drug known to be metabolized by the CYP3A4 isozyme. Although it has not been definitively demonstrated that fluvoxamine is a potent CYP3A4 inhibitor, it is likely to be, given the substantial interaction of fluvoxamine with alprazolam. Consequently, it is recommended that fluvoxamine not be used in combination with pimozide (see CONTRAINDICATIONS and PRECAUTIONS). Other Potentially Important Drug Interactions: (Also see PRECAUTIONS-Drug Interactions). Benzodiazepines: Benzodiazepines metabolized by hepatic oxidation (eg alprazolam, midazolam, triazolam, etc.) should be used with caution because the clearance of these drugs is likely to be reduced by fluvoxamine The clearance of benzodiazepines metabolized by glucuronidation (eg lorazepam, oxazepam, temazepam) is unlikely to be affected by fluvoxamine, Alprazolam—When IR fluvoxamine maleate (100 mg once daily [qd]) and alprazolam (1 mg four times per day) were co-administered to sleady state, plasma concentrations and other PK parameters (AUC, C<sub>max</sub>, T<sub>55</sub>) of alprazolam were approximately twice those observed when alprazolam was administered alone; oral clearance was reduced by about 50%. The elevated plasma alprazolam concentrations resulted in decreased psychomotor performance and memory. This interaction, which has not been investigated using higher doses of fluvoxamine, may be more pronounced if a 300 mg daily dose is coadministered, particularly since fluvoxamine exhibits non-linear PK over the dose range 100-300 mg. If alprazolam is co-administered with LUVOX CR, the initial alprazolam dose should be at least halved and titration to the lowest effective dose is recommended. No dose adjustment is required for LUVOX CR. Diazepam—The co-administration of LUVOX CR and diazepam is generally not advisable. Because fluvoxamine reduces the clearance of both diazepam and its active metabolite, N-desmethyldiazepam, there is a strong likelihood of substantial accumulation of both species during chronic co-administration. Evidence supporting the conclusion that it is inadvisable to co-administer fluvoxamine and diazepam derives from a study in which healthy volunteers taking 150 mg/day of IR fluvoxamine maleate were administered a single oral dose of 10 mg of diazepam. In these subjects (n=8), the clearance of diazepam was reduced by 65% and that of N-desmethyldiazepam to a level too low to measure over the course of the 2-week-long study. It is likely that this experience significantly underestimates the degree of accumulation that might occur with repeated diazepam administration. Moreover, as noted with alprazolam, the effect of fluvoxamine may even be more pronounced at higher doses. Accordingly, diazepam and fluvoxamine should not ordinarily be co-administered. Mexiletine-The effect of steady-state IR fluvoxamine maleate (50 mg bid for 7 days) on the single-dose PK of mexiletine (200 mg) was evaluated in 6 healthy Japanese males. The clearance of mexiletine was reduced by 38% following co-administration with fluvoxamine compared to mexiletine alone. If fluvoxamine and mexiletine are co-administered, serum mexiletine levels should be monitored. Neuroleptic Malignant Syndrome (NMS) or NMS-Like Events: Plare instances of NMS or NMS-like events have been reported in association with fluvoxamine treatment when co-administered with anti-psychotics. Additionally, a small number of such cases have been reported with fluxoxamine treatment in the absence of anti-psychotic co-administration. These serious and sometimes fatal events can include hyperthermia, muscle rigidity, autonomic instability with possible rapid fluctuations of vital signs, and mental status changes. As these events may result in potentially life-threatening conditions, patients receiving this combination of therapy should be monitored for the emergence of NMS-like signs and symptoms. Treatment with fluvoxamine and any concomitant anti-psycholic agent should be discontinued immediately if such events occur and supportive symptomatic treatment should be initiated. Theophylline: The effect of steady-state IR fluvoxamine maleate (50 mg bid) on the PK of a single dose of theophylline (375 mg as 442 mg aminophylline) was evaluated in 12 healthy, non-smoking male volunteers. The clearance of theophylline was decreased -3-told. Therefore, if theophylline is co-administered with fluvoxamine malcate, its dose should be reduced to 1/3 of the usual daily maintenance dose and plasma concentrations of theophylline should be monitored. No dose adjustment is required for LUVOX CR. Warfarin: When IR fluvoxamine maleate (50 mg three times per day) was administered concomitantly with warfarin for 2 weeks, warfarin plasma concentrations increased 98% and prothrombin finnes were protonged. Thus patients receiving oral anticoagulants and LUVOX CR should have their prothrombin time monitored and their anticoagulant dose adjusted accordingly. No dose adjustment is required for LUVOX CR. Serotonin Syndrome: The development of a potentially life-threatening serotonin syndrome may occur with LUVOX CR treatment, particularly with concomitant use of serotonergic drugs (including triptans) or drugs that impair metabolism of serotonin (including MADIs). Serotonin syndrome symptoms may include ntal status changes (eg agitation, hallucinations, coma), autonomic instability (eg tachycardia, labile blood pressure, hyperthermia), neuromuscular aberrations (eg hyperreflexia, incoordination), and/or gastrointestinal (GI) symptoms (eg nausea, vomiting, diarrhea). The concomitant use of LUVOX CR with MAOIs intended to treat depression is contraindicated (see CONTRAINDICATIONS and WARNINGS-Potential for Interactions with Monoamine Oxidase Inhibitors). If concomitant treatment of LUVOX CR with a 5-hydroxtryptamine receptor against (triptan) is clinically warranted, careful observation of the patient is advised, particularly during treatment initiation and dose increase (see PRECAUTIONS-Drug Interactions). Concomitant use of fluvoxamine with serotonin precursors (such as tryptophan) is not recommended (see PRECAUTIONS-Drug Interactions). PRECAUTIONS: General—Discontinuation of Treatment with LUVOX CR: During marketing of IR fluvoxamine maleate and other SSRIs and SNRIs, there have been spontaneous reports of adverse events (AEs) occurring upon discontinuation of these drugs, particularly when abrupt, including the following: dysphoric mood, irritability, agitation, dizziness, sensory disturbances (eg paresthesias, such as electric shock sensations), anxiety, confusion, headache, lethargy, emotional lability, insomnia, and hypomania. While these events are generally self-limiting, there have been reports of serious discontinuation symptoms. Patients should be monitored for these symptoms when discontinuing treatment with LUVOX CR. A gradual reduction in dose rather than abrupt cessation is recommended whenever possible. If intolerable symptoms occur following a decrease in the dose or on discontinuation of treatment, then resuming the previously prescribed dose may be considered. osequently, the health care provider may continue decreasing the dose but at a more gradual rate (see DOSAGE AND ADMINISTRATION). Abnormal Bleeding: SSRIs and SNRIs, including LUVOX CR, may increase the risk of bleeding events. Concomitant use of aspirin, nonsteroidal anti-inflammatory drugs (NSAIDs), warfarin, and other anticoagulants may add to this risk. Case reports and epidemiological studies (case-control and cohort design)

have demonstrated an association between use of drugs that interfere with serotonin reuptake and the occurrence of GI bleeding. Bleeding events related to use of SSRIs and SNRIs have ranged from ecchymoses, hematomas, epistaxis, and petechiae to life-threatening hemorrhages. Patients should be cautioned about the risk of bleeding associated with the concomitant use of LUVOX CR and NSAIDs, aspirin, or other drugs that affect coagulation. Activation of Mania/Hypomania: During premarketing studies of IR fluvoxamine maleate involving primarily depressed patients, hypomania or mania occurred in  $\sim$ 1% of patients treated with fluvoxamine. In a 10-week pediatric OCD study, 2 out of 57 patients (4%) treated with fluvoxamine experienced manic reactions, compared to none of 63 placebo patients. Activation of mania/hypomania has also been reported in a small proportion of patients with major affective disorder who were treated with other antidepressants. As with all antidepressants, LUVOX CR should be used cautiously in patients with a history of mania. Seizures: During premarketing studies with IR fluvoxamine maleate, seizures were reported in 0.2% of fluvoxamine-treated patients. Caution is recommended when the drug is administered to patients with a history of convulsive disorders. Fluvoxamine should be avoided in patients with unstable epilepsy, and patients with controlled epilepsy should be carefully monitored. Treatment with fluvoxamine should be discontinued if seizures occur or seizure frequency increases. Hyponatremia: Hyponatremia may occur as a result of treatment with SSRIs and SNRIs, including LUVOX CR. In many cases, this hyponatremia appears to be the result of the syndrome of inappropriate antidiuretic hormone secretion (SIADH). Cases with serum sodium lower than 110 mmol/L have been reported. Elderly patients may be at greater risk of developing hyponatremia with SSRIs and SNRIs. Also, patients taking diuretics or who are otherwise volume depleted may be at greater risk (see Geriatric Use). Discontinuation of LUVOX CR should be considered in patients with symptomatic hyponatremia and appropriate medical intervention should be instituted. Signs and symptoms of hyponatremia include headache, difficulty concentrating, memory impairment, confusion, weakness, and unsteadiness, which may lead to falls Signs and symptoms associated with more severe and/or acute cases have included hallucination, syncope, seizure, coma, respiratory arrest, and death. Use in Patients with Concomitant Illness: Closely monitored clinical experience with IR fluvoxamine maleate in patients with concomitant systemic illness is limited. Caution is advised in administering LUVOX CR to patients with diseases or conditions that could affect hemodynamic responses or metabolism. LUVOX CR or IR fluvoxamine maleate have 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 systematically excluded from many clinical studies during premarket testing. Evaluation of the electrocardiograms (ECGs) for patients with depression or OCD who participated in premarketing studies revealed no differences between fluvoxamine and placebo in the emergence of clinically important ECG changes. In patients with liver dysfunction, following administration of IR fluvoxamine maleate, fluvoxamine clearance was decreased by ~30%. Patients with liver dysfunction should begin with a low dose of LUVOX CR and increase it slowly with careful monitoring. Laboratory Tests: There are no specific laboratory tests recommended. Drug Interactions: As with all drugs, the potential for interaction by a variety of mechanisms is a possibility. Potential Interactions with Drugs that Inhibit or are Metabolized by Cytochrome P450 Isoenzymes: Multiple hepatic cytochrome P450 isoenzymes are involved in the oxidative biotransformation of a large number of structurally different drugs and endogenous compounds. The available knowledge concerning the relationship of fluvoxamine and the cytochrome P450 isoenzyme system has been obtained mostly from PK interaction studies conducted in healthy volunteers, but some preliminary in vitro data are also available. Based on a finding of substantial interactions of fluvoxamine with certain of these drugs (see WARNINGS) and limited in vitro data for CYP3A4, it appears that fluvoxamine inhibits several cytochrome P450 isoenzymes known to be involved in the metabolism of other drugs such as CYP1A2 (eg warfarin, theophylline, propranolol, tizanidine), CYP2C9 (eg warfarin), CYP3A4 (eg alprazolam), and CYP2C19 (eg omeprazole). In vitro data suggest that fluvoxamine is a relatively weak inhibitor of CYP2D6. Approximately 7% of the normal population has a genetic code that leads to reduced levels of activity of CYP2D6 enzyme. Such individuals have been referred to as poor metabolizers (PMs) of drugs such as debrisoguin, dextromethorphan, and tricyclic antidepressants. While none of the drugs studied for drug interactions significantly affected the PK of fluvoxamine, an in vivo study of fluvoxamine single-dose PK in 13 PM subjects demonstrated altered PK properties compared to 16 extensive metabolizers (EMs): mean Cmax, AUC, and T1/2 were increased by 52%, 200%, and 62%, respectively, in the PM compared to the EM group. This suggests that fluvoxamine is metabolized, at least in part, by CYP2D6. Caution is indicated in patients known to have reduced levels of  $cytochrome\ P450\ 2D6\ activity\ or\ receiving\ concomitant\ drugs\ known\ to\ inhibit\ this\ cytochrome\ P450\ isoenzyme$ (eg quinidine). The metabolism of fluvoxamine has not been fully characterized, and the effects of potent cytochrome P450 isoenzyme inhibition, such as the ketoconazole inhibition of CYP3A4, on fluvoxamine metabolism have not been studied. A clinically significant fluvoxamine interaction is possible with drugs having a narrow therapeutic ratio such as warfarin or theophylline, certain benzodiazepines, and phenytoin. If LUVOX CR is to be administered together with a drug that is eliminated via oxidative metabolism and has a narrow therapeutic window, plasma levels and/or PD effects of the latter drug should be monitored closely, at least until steady-state conditions are reached (see CONTRAINDICATIONS and WARNINGS). CNS Active Drugs: Antipsychotics: See WARNINGS—Other Potentially Important Drug Interactions, NMS or NMS-Like Events. MAOIs: See CONTRAINDICATIONS and WARNINGS. Alprazolam and Diazepam: See WARNINGS. Alcohol: Studies involving single 40 g doses of ethanol (oral administration in 1 study and intravenous in the other) and multiple dosing with IR fluvoxamine maleate (50 mg bid) revealed no effect of either drug on the PK or PD of the other. Carbamazepine: Elevated carbamazepine levels and symptoms of toxicity have been reported with the co-administration of IR fluvoxamine maleate and carbamazepine. Clozapine: Elevated serum levels of clozapine have been reported in patients taking IR fluvoxamine maleate and clozapine. Since clozapine-related seizures and orthostatic hypotension appear to be dose related, the risk of these AEs may be higher when fluvoxamine and clozapine are co-administered. Patients should be closely monitored when LUVOX CR and clozapine are used concurrently. *Lithium:* As with other serotonergic drugs, lithium may enhance the serotonergic effects of fluvoxamine and, therefore, the combination should be used with caution. Seizures have been reported with the co-administration of IR fluvoxamine maleate and lithium. Lorazepam: A study of multiple doses of IR fluvoxamine maleate (50 mg bid) and a 4 mg single dose of lorazepam in healthy male volunteers (n=12) indicated no significant PK interaction. On average, both lorazepam alone and lorazepam with fluvoxamine produced substantial decrements in cognitive functioning; however, the co-administration of fluvoxamine and lorazepam did not produce larger mean decrements compared to lorazepam alone. Methadone: Significantly increased methadone (plasma level:dose) ratios have been reported when IR fluvoxamine maleate was administered to patients receiving maintenance methadone treatment, with symptoms of opioid intoxication in 1 patient. Opioid withdrawal symptoms were reported following fluvoxamine maleate discontinuation in another patient. Ramelteon: When IR fluvoxamine maleate 100 mg bid was administered for 3 days prior to single-dose coadministration of ramelteon 16 mg and IR fluvoxamine maleate, the AUC for ramelteon increased ~190-fold and the C<sub>max</sub> increased ~70-fold compared to ramelteon administered alone. Ramelteon should not be used in combination with LUVOX CR (see WARNINGS). Serotonergic Drugs: Based on the mechanism of action of LUVOX CR and the potential for serotonin syndrome, caution is advised when fluvoxamine is co-administered with other drugs that may affect the serotonergic neurotransmitter systems, such as triptans, linezolid (an antibiotic which is a reversible non-selective MAOI), lithium, tramadol, or St. John's Wort (see WARNINGS— Serotonin Syndrome). The concomitant use of LUVOX CR with other SSRIs, SNRIs, or tryptophan is not recommended. Sumatriptan: Rare postmarketing reports have described patients with weakness, hyperreflexia, and incoordination following the use of an SSRI and sumatriptan. If concomitant treatment with sumatriptan and an SSRI (eg fluoxetine, fluvoxamine, paroxetine, sertraline, etc.) is clinically warranted, appropriate observation of the patient is advised. Tacrine: In a study of 13 healthy male volunteers, a single  $40\,mg$  dose of tacrine added to IR fluvoxamine maleate  $100\,mg/day$  administered at steady state was associated with 5- and 8-fold increases in tacrine  $C_{max}$  and AUC, respectively, compared to the administration of tacrine alone. Five subjects experienced nausea, vomiting, sweating, and diarrhea following co-administration, consistent with the cholinergic effects of tacrine. *Thioridazine*: See CONTRAINDICATIONS and WARNINGS. Triptans: There have been rare postmarketing reports of serotonin syndrome with use of an SSRI and a triptan.

If concomitant treatment of fluvoxamine with a triptan is clinically warranted, careful observation of the patient is advised, particularly during treatment initiation and dose increases (see WARNINGS-Serotonin Syndrome). Tizanidine: See CONTRAINDICATIONS and WARNINGS. Tricyclic Antidepressants (TCAs): Significantly increased plasma TCA levels have been reported with co-administration of IR fluvoxamine maleate and amitriptyline, clomipramine, or imipramine. Caution is indicated with the co-administration of LUVOX CR and TCAs; plasma TCA concentrations may need to be monitored, and the dose of TCA may need to be reduced. Tryptophan: Tryptophan may enhance the serotonergic effects of fluvoxamine, and the combination should, therefore, be used with caution. Severe vomiting has been reported with co-administration of IR fluvoxamine maleate and tryptophan. Other Drugs: Theophylline and Warfarin: See WARNINGS. Alosetron: Because alosetron is metabolized by a variety of hepatic CYP drug metabolizing enzymes, inducers or inhibitors of these enzymes may change the clearance of alosetron. Fluvoxamine is a known potent inhibitor of CYP1A2 and also inhibits CYP3A4, CYP2C9, and CYP2C19. In a PK study, 40 healthy female subjects received fluvoxamine in escalating doses from 50 mg to 200 mg a day for 16 days, with co-administration of alosetron 1 mg on the last day. Fluvoxamine increased mean alosetron plasma concentration (AUC) ~6-fold and prolonged the half-life by ~3 fold (see **CONTRAINDICATIONS**, **PRECAUTIONS**, and Lotronex<sup>™</sup> (alosetron) package insert). *Digoxin*: Administration of IR fluvoxamine maleate 100 mg daily for 18 days (n=8) did not significantly affect the PK of a 1.25 mg single intravenous dose of digoxin. Diltiazem: Bradycardia has been reported with the coadministration of IR fluvoxamine maleate and diltiazem. Propranolol and Other Beta-Blockers: Coadministration of IR fluvoxamine maleate 100 mg per day and propranolol 160 mg per day in normal volunteers resulted in a mean 5-fold increase (range 2- to 17-fold) in minimum propranolol plasma concentrations. In this study, there was a slight potentiation of the propranolol-induced reduction in heart rate and reduction in the exercise diastolic pressure. One case of bradycardia and hypotension and a second case of orthostatic hypotension have been reported with co-administration of IR fluvoxamine maleate and metoprolol. If propranolol or metoprolol is co-administered with LUVOX CR, a reduction in the initial beta-blocker dose and more cautious dose titration are recommended. No dose adjustment is required for LUVOX CR. Co-administration of IR fluvoxamine maleate  $100 \, \text{mg}$  per day with a tenolol  $100 \, \text{mg}$  per day (n=6) did not affect the plasma concentrations of atenolol. Unlike propranolol and metoprolol, which undergo hepatic metabolism, atenolol is eliminated primarily by renal excretion. Drugs that Interfere with Hemostasis (eg NSAIDs, Aspirin, and Warfarin)— Serotonin release by platelets plays an important role in hemostasis. Epidemiological studies of the case-control and cohort design have demonstrated an association between use of psychotropic drugs that interfere with serotonin reuptake and the occurrence of upper GI bleeding. These studies have also shown that concurrent use of an NSAID or aspirin may potentiate this risk of bleeding. Altered anticoagulant effects, including increased bleeding, have been reported when SSRIs or SNRIs are co-administered with warfarin. Patients receiving warfarin therapy should be carefully monitored when LUVOX CR is initiated or discontinued. Effects of Smoking on Fluvoxamine Metabolism: Smokers had a 25% increase in the metabolism of fluvoxamine compared to nonsmokers. Electroconvulsive Therapy (ECT): No clinical studies have established the benefits or risks of combined use of ECT and fluvoxamine maleate. Carcinogenesis, Mutagenesis, Impairment of Fertility: Carcinogenesis: There was no evidence of carcinogenicity in rats treated orally with fluvoxamine maleate for 30 months or hamsters treated orally with fluvoxamine maleate for 20 months (females) or 26 months (males). The daily doses in the high-dose groups in these studies were increased over the course of the study from a minimum of 160 mg/kg to a maximum of 240 mg/kg in rats, and from a minimum of 135 mg/kg to a maximum of 240 mg/kg in hamsters. The maximum dose of 240 mg/kg is ~6 times the maximum human daily dose on a mg/m² basis. Mutagenesis: No evidence of genotoxic potential was observed in a mouse micronucleus test, an in vitro chromosome aberration test, or the Ames microbial mutagen test with or without metabolic activation. Impairment of Fertility: In a study in which male and female rats were administered fluvoxamine (60, 120, or 240 mg/kg) orally prior to and during mating and gestation, fertility was impaired at oral doses ≥120 mg/kg, as evidenced by increased latency to mating, decreased sperm count, decreased epididymal weight, and decreased pregnancy rate. In addition, the numbers of implantations and embryos were decreased at the highest dose. The no effect dose for fertility impairment was 60 mg/kg (~2 times the maximum recommended human dose [MRHD] on a mg/m² basis). Pregnancy—Teratogenic Effects—Pregnancy Category C: When pregnant rats were given oral doses of fluvoxamine (60, 120, or 240 mg/kg) throughout the period of organogenesis, developmental toxicity in the form of increased embryofetal death and increased incidences of fetal eye abnormalities (folded retinas) was observed at doses ≥120 mg/kg. Decreased fetal body weight was seen at the high dose. The no effect dose for developmental toxicity in this study was 60 mg/kg (~2 times the MRHD on a mg/m<sup>2</sup> basis). In a study in which pregnant rabbits were administered oral doses of up to 40 mg/kg (~2 times the MRHD on a mg/m² basis) during organogenesis, no adverse effects on embryofetal development were observed. In other reproductive studies in which female rats were dosed orally during pregnancy and lactation (5, 20, 80, or 160 mg/kg), increased pup mortality at birth was seen at ≥80 mg/kg, and decreases in pup body weight and survival were observed at all doses (low effect dose ~0.1 times the MRHD on a mg/m<sup>2</sup> basis). Nonteratogenic Effects: Neonates exposed to IR fluvoxamine maleate and other SSRIs or SNRIs late in the third trimester have developed complications requiring prolonged hospitalization, respiratory support, and tube feeding. These findings are based on postmarketing reports. Complications can arise immediately upon delivery. Reported clinical findings have included respiratory distress, cyanosis, apnea, seizures, temperature instability, feeding difficulty, vomiting, hypoglycemia, hypotonia, hypertonia, hyperteflexia, tremor, jitteriness, irritability, and constant crying. These features are consistent with either a direct toxic effect of SSRIs or SNRIs or, possibly, a drug discontinuation syndrome. It should be noted that, in some cases, the clinical picture is consistent with serotonin syndrome (see WARNINGS). Infants exposed to SSRIs in late pregnancy may have an increased risk for persistent pulmonary hypertension of the newborn (PPHN). PPHN is associated with substantial neonatal morbidity and mortality. In a case-control study of 377 women whose infants were born with PPHN and 836 women whose infants were born healthy, the risk for developing PPHN was ~6 fold higher for infants exposed to SSRIs after the 20th week of gestation compared to infants who had not been exposed to antidepressants during pregnancy. PPHN occurs in 1-2 per 1000 live births in the general population. When treating a pregnant woman with LUVOX CR during the third trimester, the physician should carefully consider both the potential risks and benefits of treatment (see DOSAGE AND ADMINISTRATION). Physicians should note that in a prospective longitudinal study of 201 women with a history of major depression who were euthymic at the beginning of pregnancy, women who discontinued antidepressant medication during pregnancy were more likely to experience a relapse of major depression than women who continued antidepressant medication. Labor and Delivery: The effect of fluvoxamine on labor and delivery in humans is unknown. Nursing Mothers: Fluvoxamine is secreted in human breast milk. Because of the potential for serious adverse reactions in nursing infants, a decision should be made whether to discontinue nursing or discontinue the drug, taking into account the importance of the drug to the mother. Pediatric Use: LUVOX CR has not been evaluated in pediatric patients (see BOXED WARNING). The efficacy of IR fluvoxamine maleate for the treatment of OCD was demonstrated in a 10-week multicenter placebo-controlled study with 120 outpatients ages 8-17. In addition, 99 of these outpatients continued open-label fluvoxamine maleate treatment for up to another 1 to 3 years, equivalent to 94 patient years. The AE profile observed in that study was generally similar to that observed in adult studies with IR fluvoxamine maleate (see ADVERSE REACTIONS and DOSAGEAND ADMINISTRATION). Decreased appetite and weight loss have been observed in association with the use of fluvoxamine as well as other SSRIs. Consequently, regular monitoring of weight and growth is recommended if treatment of a child with an SSRI is to be continued long term. The risks, if any, that may be associated with fluvoxamine's extended use in children and adolescents with OCD have not been systematically assessed. The prescriber should be mindful that the evidence relied upon to conclude that fluvoxamine is safe for use in children and adolescents derives from relatively short-term clinical studies and from extrapolation of experience gained with adult patients. In particular, no studies directly evaluated the effects of long-term fluvoxamine use on the growth, cognitive behavioral development, and maturation of children and adolescents. Although there is no affirmative finding to suggest that fluvoxamine possesses a capacity to adversely affect growth, development, or maturation, the absence of such findings is not compelling evidence of the absence of the potential of fluvoxamine to have

adverse effects in chronic use (see WARNINGS-Clinical Worsening and Suicide Risk). Safety and effectiveness in the pediatric population other than pediatric patients with OCD have not been established (see BOXED WARNING and WARNINGS—Clinical Worsening and Suicide Risk). Anyone considering the use of LLIVOX CR in a child or adolescent must balance the potential risks with the clinical need. Geriatric Use: Approximately 230 patients and 5 patients participating in controlled premarketing studies with IR fluvoxamine maleate and LUVOX CR, respectively, were 65 years of age or over. No overall differences in safety were observed between these patients and younger patients. Other reported clinical experience has not identified differences in response between the elderly and younger patients. However, SSRIs and SNRIs, including LUVOX CR, have been associated with cases of clinically significant hyponatremia in elderly patients, who may be at greater risk for this AE (see PRECAUTIONS—Hyponatremia). Furthermore, the clearance of fluvoxamine is decreased by about  $50\%\ in\ elderly\ compared\ to\ younger\ patients\ (see\ \textbf{Pharmacokinetics}\ under\ \textbf{CLINICAL\ PHARMACOLOGY}), and$ greater sensitivity of some older individuals also cannot be ruled out. Consequently, LUVOX CR should be slowly titrated during initiation of therapy. ADVERSE REACTIONS—Associated with Discontinuation of Treatment: Of the 279 patients with SAD and 124 patients with OCD treated with LUVOX CR in controlled clinical trials, 26% and 19% discontinued treatment due to an AE. The most common AEs (≥1%) associated with discontinuation and considered to be drug related (ie those events associated with dropout at a rate at least twice that of placebo) were as follows: In patients with SAD-Body as a Whole: asthenia (4%), headache (3%), abdominal pain (1%); Digestive: nausea (8%), diarrhea (3%), anorexia (2%); Nervous System: insomnia (5%), somnolence (5%), anxiety (4%), dizziness (4%), abnormal thinking (2%), nervousness (2%), depression (1%), agitation (1%), paresthesia (1%), tremor (1%); Skin and Appendages: sweating (1%). In patients with OCD—Body as a Whole: asthenia (2%), pain (2%); Digestive: nausea (6%), diarrhea (2%), dyspepsia (2%); Nervous System: insomnia (5%), somnolence (4%), anxiety (2%), dizziness (3%). Commonly Observed AEs: LUVOX CR has been studied in 2 controlled trials of SAD (n=279) and 1 trial of OCD (n=124). In general, AE rates were similar in the 2 data sets as well as in a study of pediatric patients with OCD treated with IR fluvoxamine maleate. The most commonly observed AEs associated with the use of LUVOX CR and likely to be drug-related (incidence ≥5% and at least twice that for placebo) were nausea, somnolence, asthenia, diarrhea, anorexia, abnormal ejaculation, tremor, sweating, and anorgasmia. In addition, the following AEs occurred in the SAD population: insomnia, dizziness, dyspepsia, yawn. In the OCD population, the following additional events occurred: decreased libido, anxiety, pharyngitis, vomiting, myalgia, and accidental injury. AEs Occurring at an Incidence of 2%: The following AEs occurred in adults at a frequency of ≥2%, and were more frequent than in the placebo group, among adult patients with SAD (n=279) treated once-daily with 100 to 300 mg/day LUVOX CR in two 12-week controlled trials: Body as a Whole: headache (35%), asthenia (24%), abdominal pain (5%), chest pain (3%); Cardiovascular: palpitation (3%), vasodilatation (2%); Digestive: nausea (39%), diarrhea (14%), anorexia (14%), dyspepsia (10%), constipation (6%), liver function test abnormal (2%); Nervous System: insomnia (32%), somnolence (26%), dizziness (15%), dry mouth (11%), nervousness (10%), decreased libido (6%) [male (8%), female (4%)], anxiety (8%), tremor (8%), abnormal thinking (3%), abnormal dreams (3%), agitation (3%), hypertonia (2%), paresthesia (3%); Respiratory System: yawn (5%), bronchitis (2%); Skin and Appendages: sweating (6%); Special Senses: taste perversion (2%): Urogenital: abnormal ejaculation (11%), anorgasmia (5%) [male (4%)] female (5%)], sexual function abnormal (3%) [male (2%), female (3%)], urinary tract infection (2%). The following AEs occurred at a frequency of ≥2%, and were more frequent than in the placebo group, among adult patients with OCD (n=124) treated once daily with 100 to 300 mg/day LUVOX CR in one 12-week controlled trial: Body as a Whole: headache (32%), asthenia (26%), pain (10%), accidental injury (5%), viral infection (2%); Cardiovascular hypertension (2%); Digestive: nausea (34%), diarrhea (18%), anorexia (13%), dyspepsia (8%), constipation (4%), vomiting (6%), tooth disorder (2%), gingivitis (2%); Hemic and Lymphatic: ecchymosis (4%); Metabolic and Nutritional Disorders: weight loss (2%); Musculoskeletal: myalgia (5%); Nervous System: insomnia (35%), somnolence (27%), dizziness (12%), dry mouth (10%), decreased libido (6%) [male (10%), female (4%)], anxiety (6%), tremor (6%), abnormal thinking (3%), agitation (2%), apathy (3%), neurosis (2%), twitching (2%); Respiratory System: pharyngitis (6%), yawn (2%), laryngitis (3%), epistaxis (2%); Skin: sweating (7%), acne (2%); Special Senses: taste perversion (2%), amblyopia (2%); Urogenital: abnormal ejaculation (10%), anorgasmia (5%), [male (4%), female (5%)], menorrhagia (3%), sexual function abnormal (2%) [male (4%), female (0%)], polyuria (2%). These lists include the percentages of patients in each group who had at least 1 occurrence of an event during treatment. Reported AEs were classified using a COSTART-based Dictionary terminology. Other AEs in OCD Pediatric Population: In pediatric patients (n=57) treated with IR fluvoxamine maleate, the overall profile of AEs was generally similar to that seen in adult studies, as shown above. However, the following AEs, not shown above, were reported in 2 or more of the pediatric patients and were more frequent with IR fluvoxamine maleate than with placebo: cough increase, dysmenorrhea, emotional lability, fever, flatulence, flu syndrome, hyperkinesia, infection, manic reaction, rash, rhinitis, and sinusitis. Male and Female Sexual Dysfunction with SSRIs: Although changes in sexual desire, sexual performance, and sexual satisfaction often occur as manifestations of a psychiatric disorder and with aging, they may also be a consequence of pharmacologic treatment. In particular, some evidence suggests that SSRIs can cause such untoward sexual experiences. Reliable estimates of the incidence and severity of untoward experiences involving sexual desire, performance, and satisfaction are difficult to obtain, however, in part because patients and health care providers may be reluctant to discuss them. Accordingly, estimates of the incidence of untoward sexual experience and performance cited in product labeling are likely to underestimate their actual incidence. The following sexual side effects were reported by ≥2% of patients taking LUVOX CR in placebo-controlled trials of SAD and OCD: abnormal ejaculation (11%), anorgasmia [male (4%), female (5%)], impotence (2%), decreased libido [male (8%), female (4%)], sexual function abnormal [male (3%), female (2%)]. Fluvoxamine treatment has been associated with several cases of priapism. In those cases with a known outcome, patients recovered without sequelae and upon discontinuation of fluvoxamine. While it is difficult to know the precise risk of sexual dysfunction associated with the use of SSRIs, health care providers should routinely inquire about such possible side effects. Changes in Weight, Vital Signs, and Laboratory Tests: No statistically significant differences in weight gain or loss were found between patients treated with LUVOX CR or placebo. Comparisons of IR fluvoxamine maleate or LUVOX CR versus placebo groups in separate short-term trials on (1) median change from baseline and on (2) incidence of patients meeting criteria for potentially important changes from baseline showed no important differences on various vital signs variables or serum chemistry, hematology, and urinalysis variables. ECG Changes: Comparisons of IR fluvoxamine maleate or LUVOX CR and placebo groups in separate pools of short-term OCD and depression trials on (1) mean change from baseline on various ECG variables and on (2) incidence of patients meeting criteria for potentially important changes from baseline on various ECG variables revealed no important differences. Postmarketing Reports: Voluntary reports of AEs in patients taking IR fluvoxamine maleate that have been received since market introduction and are of unknown causal relationship to fluvoxamine include acute renal failure, agranulocytosis, amenorrhea, anaphylactic reaction, angioedema, aplastic anemia, bullous eruption, Henoch-Schoenlein purpura, hepatitis, hyponatremia, ileus, laryngismus, neuropathy, pancreatitis, porphyria, priapism, serotonin syndrome, severe akinesia with fever when fluvoxamine was co-administered with anti-psychotic medication, Stevens-Johnson syndrome, toxic epidermal necrolysis, vasculitis, and ventricular tachycardia (including torsades de pointes). DRUG ABUSE AND DEPENDENCE: Controlled Substance Class-LUVOX CR is not a controlled substance. Physical and Psychological Dependence: The potential for abuse, tolerance, and physical dependence with IR fluvoxamine maleate has been studied in a nonhuman primate model. No evidence of dependency phenomena was found. The discontinuation effects of LUVOX CR were not systematically evaluated in controlled clinical trials. LUVOX CR was not systematically studied in clinical trials for potential for abuse, but there was no indication of drug-seeking behavior in clinical trials. It should be noted however that patients at risk for drug dependency were systematically excluded from investigational studies of IR fluvoxamine maleate. Generally, it is not possible to predict on the basis of preclinical or premarketing clinical experience the extent to which a CNS active drug will be misused, diverted, and/or abused once marketed. Consequently, health care providers should carefully evaluate patients for a history of drug abuse and follow such patients closely, observing them for signs of LUVOX CR misuse or abuse (ie development of tolerance, incrementation of dose, drug-seeking behavior). OVERDOSAGE: Human

Experience: Exposure to IR fluvoxamine maleate includes over 45,000 patients treated in clinical trials and an estimated exposure of 50,000,000 patients treated during worldwide marketing experience (end of 2005). Of the 539 cases of deliberate or accidental overdose involving fluvoxamine reported from this population, there were 55 deaths. Of these, 9 were in patients thought to be taking IR fluvoxamine alone, and the remaining 46 were in patients taking fluvoxamine along with other drugs. Among nonfatal overdose cases, 404 patients recovered completely. Five patients experienced adverse sequelae of overdosage, to include persistent mydriasis, unsteady gait, hypoxic encephalopathy, kidney complications (from trauma associated with overdose), bowel infarction requiring a hemicolectomy, and vegetative state. In 13 patients, the outcome was provided as abating at the time of reporting. In the remaining 62 patients, the outcome was unknown. The largest known ingestion of fluvoxamine IR involved 12,000 mg (equivalent to 2 to 3 months' dosage). The patient fully recovered. However, ingestions as low as 1,400 mg have been associated with lethal outcome, indicating considerable prognostic variability. In the controlled clinical trials with 403 patients treated with LUVOX CR, there was 1 nonfatal intentional overdose. Commonly (≥5%) observed AEs associated with fluvoxamine maleate overdose include GL complaints (nausea, vomiting, and diarrhea), coma, hypokalemia, hypotension, respiratory difficulties, somnolence, and tachycardia. Other notable signs and symptoms seen with IR fluvoxamine maleate overdose (single or multiple drugs) include bradycardia, ECG abnormalities, (such as heart arrest, QT interval prolongation, first degree atrioventricular block, bundle branch block, and junctional rhythm), convulsions, dizziness, liver function disturbances, tremor, and increased reflexes. Management of Overdose: Treatment should consist of those general measures employed in the management of overdosage with any antidepressant. Ensure an adequate airway, oxygenation, and ventilation. Monitor cardiac rhythm and vital signs. General supportive and symptomatic measures are also recommended. Induction of emesis is not recommended. Gastric layage with a large-bore orgastric 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 fluvoxamine are known. A specific caution involves patients taking, or recently having taken, fluvoxamine maleate who might ingest excessive quantities of a tricyclic antidepressant. In such a case, accumulation of the parent tricyclic and/or an active metabolite may increase the possibility of clinically significant sequelae and extend the time needed for close medical observation (see Tricyclic Antidepressants (TCAs) under PRECAUTIONS). In managing overdose, consider the possibility of multiple drug involvement. The health care provider should consider contacting a poison control center for additional information on the treatment of any overdose. Telephone numbers for certified poison control centers are listed in the Physicians' Desk Reference. DOSAGE AND ADMINISTRATION: SAD and OCD-The recommended starting dose for LUVOX CR in adults is 100 mg qd. LUVOX CR should be administered, with or without food, as a single daily dose at bedtime. The dose should be increased in 50 mg increments every week, as tolerated, until maximum therapeutic benefit is achieved, not to exceed 300 mg per day. Capsules should not be crushed or chewed. Special Populations—Dosage for Elderly or Hepatically Impaired Patients: Elderly patients and those with hepatic impairment have been observed to have a decreased clearance of fluvoxamine maleate. Consequently, it may be appropriate to titrate slowly following the initial dose of 100 mg in these patient groups. *Treatment of* Pregnant Women During the Third Trimester: No neonates have been exposed to LUVOX CR. Neonates exposed to IR fluvoxamine maleate and other SSRIs or SNRIs late in the third trimester have developed complications requiring prolonged hospitalization, respiratory support, and tube feeding (see PRECAUTIONS). When treating pregnant women with LUVOX CR during the third trimester, the health care provider should carefully consider the potential risks and benefits of treatment. The health care provider may consider tapering LUVOX CR in the third trimester. Maintenance/Continuation of Extended Treatment: Although the efficacy of LUVOX CR beyond 12 weeks of dosing for SAD and OCD has not been documented in controlled trials. SAD and OCD are chronic conditions, and it is reasonable to consider continuation for a responding patient. Dose adjustments should be made to maintain the patient on the lowest effective dose, and patients should be periodically reassessed to determine the need for continued treatment. Switching Patients To or From a Monoamine Oxidase Inhibitor: At least 14 days should elapse between discontinuation of an MAOI and initiation of therapy with LUVOX CR. Similarly, at least 14 days should be allowed after stopping LUVOX CR before starting an MAOI. Discontinuation of Treatment with LUVOX CR: Symptoms associated with discontinuation of other SSRIs or SNRIs have been reported (see PRECAUTIONS). Patients should be monitored for these symptoms when discontinuing treatment. A gradual reduction in the dose rather than abrupt cessation is recommended whenever possible. If intolerable symptoms occur following a decrease in the dose or upon discontinuation of treatment, then resuming the previously prescribed dose may be considered. Subsequently, the health care provider may continue decreasing the dose but at a more gradual rate

**HOW SUPPLIED: Storage:** LUVOX CR Capsules should be protected from high humidity and stored at 25°C (77°F); excursions permitted to 15°-30°C (59°-86°F) [see USP Controlled Room Temperature]. Avoid exposure to temperatures above 30°C (86°F). Dispense in tight containers. **Keep out of reach of children**.

Lotronex<sup>™</sup> is a trademark of GlaxoSmithKline. LUVOX® is a registered trademark of Solvay Pharmaceuticals, Inc. ©2008 Jazz Pharmaceuticals, Inc. Printed in U.S.A. LCR-BPI-01 Rev 0208

References: 1. Davidson J, Yaryura-Tobias J, DuPont R, et al. Fluvoxamine-controlled release formulation for the treatment of generalized social anxiety disorder. *J Clin Psychopharmacol*. 2004;24:118-125.

2. Westenberg HGM, Stein DJ, Yang H, et al. A double-blind placebo-controlled study of controlled release fluvoxamine for the treatment of generalized social anxiety disorder. *J Clin Psychopharmacol*. 2004;24:49-55.

3. Hollander E, Koran LM, Goodman WK, et al. A double-blind, placebo-controlled study of the efficacy and safety of controlled-release fluvoxamine in patients with obsessive-compulsive disorder. *J Clin Psychiatry*. 2003;64:640-647.

4. Luvox CR Prescribing Information. Jazz Pharmaceuticals, Inc., Palo Alto, CA; 2008.





# PSYCHIATRY

### BOARD REVIEW SERIES

THE KAUFMAN COURSES

SPONSORED BY MONTEFIORE MEDICAL CENTER CREDIT DESIGNATED BY ALBERT EINSTEIN COLLEGE OF MEDICINE Accreditation Statement: Albert Einstein College of Medicine is accredited by the

Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

### **CLINICAL NEUROLOGY FOR PSYCHIATRISTS** David Myland Kaufman, MD

This intensive three-day weekend course, offered for the 37th year, is designed for psychiatrists in practice and in residency as an update or board preparation. Focusing on essential topics, the course will use lectures, extensive syllabus, and the new edition of Clinical Neurology for Psychiatrists, David M. Kaufman (6th edition, Elsevier).

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**NEW YORK** 

LOS ANGELES

7:45 AM - 5:30 PM

The Graduate Center City University of New York (CUNY) Friday, April 17 to Sunday, April 19, 2009 8:15 AM - 6:00 PM

The Westin Hotel at the Los Angeles Airport

Friday, March 27 to Sunday, March 29, 2009

5400 West Century Boulevard, Los Angeles, CA 90045

### **PSYCHIATRY FOR PSYCHIATRISTS** Andrea J. Weiss, MD and David Myland Kaufman, MD

This two-day course will be a pre-test that will complement standard psychiatry review courses and complete the review in Clinical Neurology for Psychiatrists. In this course, an expert group of faculty who are experienced and well-informed about modern psychiatry and testtaking strategies will present essential information through a series of test-type questions utilizing audience response system keypads and using answers for discussions and explanations.

AMA Statement: Albert Einstein College of Medicine designates this educational activity for a maximum of 16 AMA PRA Category 1 Credit(s). TM Physicians should only claim credit commensurate with the extent of their participation in the activity.

### LOS ANGELES

The Westin Hotel at the Los Angeles Airport 5400 West Century Boulevard, Los Angeles, CA 90045 Monday, March 30 to Tuesday, March 31, 2009 7:45 AM - 5:30 PM

### **NEW YORK**

The Graduate Center City University of New York (CUNY) Monday, April 20 to Tuesday, April 21, 2009 8:15 AM - 6:00 PM

### **MAINTENANCE OF CERTIFICATION: THE RECERT COURSE** Dan Smuckler, MD, Andrea J. Weiss, MD and David Myland Kaufman, MD

This intensive two-day course designed for psychiatrists will review the psychiatric information likely to appear on the recertification examination. It will cover current evidence-based treatments for psychiatric disorders, emphasizing clinical matters and advances in diagnosis and treatment. Presentation of the material will be in a mixed format, with both lecture and question and answer utilizing audience response system keypads.

AMA Statement: Albert Einstein College of Medicine designates this educational activity for a maximum of 14.5 AMA PRA Category 1 Credit(s).™ Physicians should only claim credit commensurate with the extent of their participation in the activity.

### **NEW YORK**

SUNY College of Optometry (New Location) Joseph and Roberta Schwarz Theater 33 West 42nd Street (Between 5th and 6th Avenues) New York, NY 10036 Friday, January 30 to Saturday, January 31, 2009 7:45 AM - 5:30 PM

### FOR MORE INFORMATION

- Web site Course Information or To Register: www.cnfp.org
- Write: CCME, 3301 Bainbridge Avenue, Bronx, NY 10467
- E-mail: cme@montefiore.org
- Call: 718-920-6674 Fax: 718-798-2336

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	Check One: Practicing Physicians	(Fri-Sat)  Residents & Fellows	Name	Degree
Clinical Neurology (Course) Psychiatry: Pre-Test (Course)	\$975.00 \$600.00 \$1,300.00 \$110.00 \$495.00	\$850.00 \$500.00 \$1,100.00 \$110.00	Twe cannot mail the textboo  City  Phone ()  Affiliation e mail	sk to P.O. Boxes State Zip



### Effectively treats acute manic and mixed episodes

### Well-established tolerability profile

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

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

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

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

- Target 120-160 mg/day on Day 2
- Initiate dosing at 80 mg/day with meals

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

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

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

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

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

Individual results may vary.

Please see brief summary of prescribing information on adjacent page.

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



Increased Mortality in Elderly Patients with Demontia-Related Psychosis - Elderly patients with demontia-related psychosis treated with antipsycholic drugs are at an increased risk of death. Analyses of seventeen placebo-controlled trials imodal duration of 10 weeks). largely in patients taking atypical antipsychotic drugs, revealed a risk of death in drug-treated patients of between 1.61o 1.7 times the risk of death 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 warred, most of the deaths appeared to be either cardiovascular (e.g., heart failure, sudden death) or infectious (e.g., puenumoia) in nature. Observational studies suggest that, similar to abplical analysycholic drugs, treatment with conventional analysis may increase mortality. The extent to which the findings of increased mortality in observational studies may be attributed to the antipsychotic drug as opposed to some characteristicis) of the patients is not clear. Geodon (ziprasidone) is not approved for the nent of patients with Dementia-Related Psychosis (see WARNINGS).

INDICATIONS—GEODON Copsules 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

schizophereic patients.

CONTRAINDICATIONS—*QT Prolongation*: Decause of GEODON's dose-related prolongation of the QT interval and the known association of fatal armythmias with QT prolongation by some other drugs, GEODON is contraindicated in patients with a known history of QT prolongation (including only entail long QT syndrome), with recent acute mycacidial infaction, or with uncompensated heart failure (see WARNINGS.) Pharmacokinetic pha izide, sparficicació, gatificicació, moxificicació, halofaritrine, mefloquine, pentamidine, arsenictrioxide, levomethadyl acetate, dolasetror esplate, probuced, or bacrolimus. GEUDOM is also contraindicated with drugs that have demonstrated QT protongation as one of their armacodynamic effects and have this effect described in the full preccribing information as a contraindication or a boxed or boilded warming be WARNINGS). GEODON is contraindicated in individuals with a known hypersensitivity to the product. WARNINGS—Increased loce WARNINGS.) GEODON's contraindicated in individuals with a known hypersensitivity to the product. WARNINGS—Increased Montality in Elderly Patients with Dementia Related Psychosis: Elderly patients with dementia related psychosis treated with antipsychotic drugs are at an increased risk of death. GEODON (ziprasidone) is not approved for the treatment of patients with dementia-related gosychosis (see BOXE WARNING). Of Prelongation and Risk of Sudden Death: GEODON use should be avoided in combination with other drugs that are known to profloon the CT, interval. Additionally, clinicians should be alret to the identification of other drugs that have been consistently observed to prolong the OT, interval. Additionally, clinicians should not be prescribed with GEODON A study directly comparing the OT/OT, prolonging effect of GEODON with several other drugs effective in the treatment of exhibitors are always conducted in patient volunteers. The mean increase in OT, from baseline for GEODON aranged thom approximately 9 to 14 mise of greater than for four of the comparator drugs (risperiodoe, plantagrine, quellagine, and happening), but we have considered in the prolongation pages of the individual prolongation of the prolongation of plantagrine in this treatment of GEODON and GEODON and CEDON apport (length was not approximately 14 mise less than the prolongation observed for thioridazine. In this study, the effect of GEODON on 1, length was not augmented by the presence of a metabolic inhibitor (ketoconazole 200 mg bid), in placebo-controlled trials, GEODON increased the 101\_interval compared to placebo by approximately 10 mese at the highest recommended daily does of 150 mg. In class trials that is the effector action of 102 mg and 10 potentially clinically relevant threshold of 500 msec. In the GEODON patients, notither case suggested a role of GEODON. Some drugs that prolong the QT/OT, interval have been associated with the occurrence of torsade de pointes and with sudden unexplained death. The relationship of QT prolongation to torsade de pointes is clearest for larger increases (20 msec and greater) but it is possible that The relationship of up protongation to torsade de pointes is creates not narger increases; to miss can got growing in its possion examilate OT/OT, protonogations may also increase in its, or increase it in association individuals, such as those with hypokalemia, hypomagnesemia, or genetic predisposition. Although forsade de pointes has not been observed in association with the use of GEODON at recommended doses in premarketing studies, experience is too limited to nate out an increased risk. A study evaluating the OT/OT protonoging effect of intramuscular GEODON, with intramuscular halogeridol as a control, was conducted in patient volunteers. In the trial, EEGs were obtained at the time of maximum plasma concentration following two injections of GEODON (20 mg then 30 mg) or haloperidol (7,5 mg than 10 mg) given four hours apart. Note that a 30 mg dose of inframuscular GEODON is 50% higher than the recommended therapeutic dose. The mean change in QT, from baseline was calculated for each drug using a sample-based correction that removes the effect of heart rate on the QT interval. The mean increase in QT, from baseline for GEODON was 4.6 mose following the first injection and 12.8 msec following the second injection. The mean increase in QT, from baseline for haloperidol was 6.0 mse the instruction and 2.5 enterestion and instruction and a OT, interval exceeding 500 mass. As with other antipsychotic drugs and placebo, sudden unexplained deaths have been reported in patients taking CEODON at recommended doses. The premarketing experience for GEODON did not reveal an excess of mortality for GEODON compared to other recommended observing representation of exposure was limited, especially for the drugs uses a mentanty or economicated an entire and instance and in de pointes and/or sudden death in association with the use of drugs that prolong the OT, interval; including (1) bradycardia; (2) hypokalemia or hypomagnesemia; (3) concomitant use of other drugs that prolong the OT, interval; and (4) presence of congenital prolongation of the OI interval; and (4) presence of congenital prolongation of the OI interval; and (4) presence of congenital prolongation of the OI interval; DEUDON should also be avoided in patients with congenital long OI syndrome and in patients with a history of cardiac arrhythmia; [see CONTRAINDICATIONS, and see *Drug Intervactions* under PRECAUTIONS). It is recommended the patients being considered for GEODON treatment who are at risk for significant electrolyte disturbances, hypokalemia in particular, have baseline serum potassium and magnesium shall be provided in the magnetic theory, distribute, and other causes. Pablons with live secretary proposed in the proposed provided in patients of the provided in patients with histories and increase the risk of further prolongation and arrhythmia, but it is not clear that routine screening ECO measures are effective in detecting such patients. Another, GEODON should be avoided in patients with histories utsignificant cardiovascular filmess, e.g. OT prolongation and patients who are serviced in patients with histories of Mationary Syndrome /MMS: A descondinged in patients with a patients for a found to have presistent OT, measurements. Selection MMS: A desconding of the patients with missing of Mationary Syndrome /MMS: A desconding of the patients of the patients with a second patient was a result on the patients of the patie eg. OT prolongation, recent acute myocardial infanction, uncompensated heart tailure, or cardiac arrhythmia. GEODON should be discontinued in patients who are jound to have persistent OT, measurements >500 mee. Neurolepic Matigoant Syndrome (MMS): A potentially tails symptom complex formatisms referred to as Neurolepic Matigoant Syndrome (MMS) has been reported in association with administration of arrhpsychotic drugs. The management of MMS should include: (1) immediate discontinuation of arrhpsychotic drugs. The management of MMS should include: (1) immediate discontinuation of arrhpsychotic drugs and other drugs on desentant to concurrent threapy; (2) intensive symptomatic tradument and mediated monotoning, and (3) teatment of any concomitant serious medical problems for which specific treatments are available. If a patient requires antipsychotic drug treatment after recovery from MMS, the potential reintroduction of drug threapy should be carduly considered. The patient should be carduly monotored, since recourses of MMS has been reported. Targive Dyskinesis (TD): A syndrome of potentially interversible, involuntary, dyskinetic movements may develop in patients undergoing treatment with arrhpsychotic drugs. Although the prevalence of 1D appears to be highest among the elicity expectably deletely women: all simpossible to rely upon prevalence estimates to predict, at the inceptable of arthpsychotic treatment which patients are likely to develop 1D. It sugns and symptoms of 1D appear in a patient on 6E000M drug discontinuation should be considered. Hyperplycemia and Diabetes Mellins: There have been fine reported in preparation and provided and arthpsychotic structures are reported in preparation of the properties the reported and arthpsychotic structures are setting. The reported in the patient of the properties the related and arthpsychotic structures are related and arthpsychotic structures are related and arthpsychotic structures are the related and arthpsychotic structures are the related and arthpsychoti systemic siness, e.g., elevated WBUs. Most patients improved promptly upon treatment with antihistamines or steroids and/or upon discontinuation of GEODON, and all patients were reported to recover completely. Upon appearance of rach for which an atternative etiology cannot be identified. GEODON should be discontinued. Orthostatic Hypotension. GEODON may induce orthostatic hypotension accordated. cannot be dentified, GEODON should be decontinued. Ottoptate Expotension, GEODON may induce orthocatise hypotension associated with disziness, startycardia, and, in some patients, syncope, especially during the initial dose-tratation period probably reflecting its ogaries and exposed in the patients. Syncope was reported in 0.0% of GEODON patients. GEODON should be used with particular cauthor in patients with known cardiovascular disease (history of myocardial infarction or ischemic heart disease. History of myocardial infarction or ischemic heart disease. Tablure or conduction stront matters to be protection (delynquison, hisporoterma, and treatment with antihypertensive merications). Segizage, inclinical trials, seitures occurred in 4.4% of GEODON patients. There were condounding factors that may have contributed to settories in many of these cases. As with other antipsychotic drugs, GEODON patients. There were condounding factors that may have contributed to settories in many of these cases. As with other antipsychotic drugs, GEODON should be used custiously in patients with instery of secures of with condours that potentially lower the secure threshold, e.g., Although and septiated prevalents are potentially lower the secure threshold, e.g., Although and aspiration have been associated with antipsychotic drug as found to a patient of prevalents as a common cause of morbidity and mortality in elderly patients, in particular those with advanced Alzheimer's dementia, and GEODON and other antipsychotic drugs should be used caudiously in patients affected Psychotic programmer. As with other drugs that antiaporace document of receptors, CEODON elevates. and aspiration have been associated with antipsychobic drug use. Aspiration pneumonia is a common cause of morbidity and mortanity industry patients, in particular those with advanced Alzheimer's dementia, and GEODON and other antipsychobic drugs should be used caubously in patients at risk for aspiration pneumonia. (See also Boxed WARNING, WARNINGS: Increased Morbility in Elderly Patients with Dementia-Related Psychosis). Hyperprojectionemia, As with other drugs that antigonize dopamine D, receptors, GEODON deventes profession levels in humans. Tosse outher experiments indicate that approximately one third fruman head scances are protected elevated in within a fastion of potential importance if the prescription of these drugs is contemplated in a patient with previously detected breast cancer. Welther clinical studies non-epidemiologic studies conducted to date have shown an association between chronic administration of this class of drugs, and thancer persent in a studies of the programment of the companion o

information and instructions in the Patent Information Section though de discussed with publishe. Laboratory Tests: Patents being considered for GEODON treatment who are at risk of significant electrolyte disturbances should have baseline serum potassium and magnesium measurements. Low scrum potassium and magnesium should be repleted before treatment. Patients who are started on disurches during GEODON therapy need periods maintaining of serum potassium and magnesium. Discontinue GEODON in patients who are started on disurches during GEODON therapy need periods maintaining the patients. The GEODON should not be used with any drain patients who are started on disurches during the GEODON interestination. The GEODON interestination of the section of the contraining the GEODON interestination of the section of the GEODON interestination. The GEODON interestination of the section of the contraining durings. (3) Because of its putential for indusing hypotheriscin. GEODON may enhance the effects of centain antidippertensive agents. (4) GEODON may antarporine the effects of levelups and disparinte agents. Effect of Other Drugs on GEODON. Commandation and disparinte agents. (4) GEODON may antarporine the effects of levelups and disparinte agents. Effect of Other Drugs on GEODON. Commandation of the other parts of the GEODON patents are determined by the commandation of the GEODON patents of the general patients in contraction of the GEODON patients of the and instructions in the Platent Information Sectionshould be discussed with patients. Laboratory Tests: Patients being considered showed that 6C000K did not after the metabolism of destimentary devices that C000K did not after the metabolism of destimentary devices that the control of tumors in rodents is unknown (see Hyppriptychologina). Mutagenses; There was a reproductive mutagenic response in the America of mutables cativoton. Pootber results were obtained in both their in who mammalian call gene mutation assay and the in vitro chromosomal aberration assay in human hymphocytes. Impairment of Fertility, GEODON increased time to copulation in Sprague Duwley rate in two fertility and early embryonic developments studies at disease of 10 to 150 mg/kg/dg/ (0.5 to 8 times the MPHFI to 200 mg/kg/dg/ on a mgm\* basis). Fertility rate was reduced at 160 mg/kg/dg/ (0.5 to 8 times the MPHFI to 3 command you are more adequate and well-controlled studies in designant women. GEODON should be subject to a mgm\* basis. The fertility of fertility at 40 mg/kg/dg/ (2 times the MPHFI to 0 amg/ mg/ basis). The fertility of fertility of fertility at 40 mg/kg/dg/ (2 times the MPHFI to 0 amg/ mg/ basis). The fertility of fertility at 40 mg/kg/dg/ (2 times the MPHFI to 0 amg/ basis). The fertility of fertility of fertility at 40 mg/kg/dg/ (2 times the MPHFI to 0 amg/ basis of the mg/ basis of the Adverse Events at an Incidence 3-5% and at Least Twice the Rate of Placebo. The most commonly observed adverse events associated with GEODON in schizophrena trats were commolence (14%) and respiratory tract infection (8%). The most commonly observed adverse events associated with GEODON in schizophrena trats were commolence (14%) and respiratory tract infection (8%). The most commonly observed adverse events associated with the use of GEODON in palor manis trails were commolence (34%), during the commonly observed adverse events that occurred mine and produce of (6%), ashinals (10%), abnormal vision (6%), ashinals (10%), 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 CEODON patients and at a greater incidence than in placebo. Schizophrenia: Body as a Whole—ashitenia, accidental impry, chest plan. Cardiovascular—tachycardia. Digestin—manisea. consideration (spacebos, diarrhea, dry mouth, amoreixa (8x-roys) — and Appendigatey—existing try. event introduced in the cardiovascular—tachycardia. Sessis—abnormal vision (Bipatra Manis Special Sessis—abnormal vision (Bipatra Manis Special Sessis—abnormal vision (Bipatra Manis Special Sessis)—abnormal vision (Bipatra Manis Sessis)—abn Adverse Events at an incidence >5% and at Least Twice the Rate of Placetia: The most commonly observed adverse events associated Scale did not generally show a difference between GEDDON and placebo. Drastonia: Prolonged abnormal contractors of muscle groups muscle according to susceptible individuals during first few days of treatment. Dystoms may occur at any dose level but with greater frequency and sevenity with high potency and step higher doses of first generation analogos/choic drugs. Elevated risks is observed in many dysnegrage groups. Vital Sign Changes: GEDDON is associated with orthostatic hypotensism (see PRECAUTIONS). Weight Gain: In short-term schizophenia trais, the proportions of patients meeting aweight gain criterion of 2-7% of body weight were compared, reventing a shalloudly significant s schrödinsche Georgiaus vittere. Versiche der Versiche Versiche der Versiche der Versiche Versicht von Versiche Versiche Versiche Versiche Versiche Versiche Ver System - Prequent annowax vorniting, immequent recta nemorrhage, dyspraga, togque elema, Haire gum nemorrimage, pundice, respective, propriet annoyax orniting, annoyax orniti hyperipemia. hypocholesteremia. hyperkalemia. hypochloremia. hypopycemia. hypopycemia. hypocholesteremia. glucose tolerance decreased; upud. hyperchloremia hyperipemia. hypopycemia hypopycemia. hypopy hemorrhage, noclaria, cliquina, fernale sexual dysfunction, uterine hemorrhage. Adverse Finding Observed in Trials of Intransactian (ECOON), ECFs) and observed at release studies, the most crimmanly observed at verse events associated with the use of intransactian (ECOON), ECFs) and observed at release intransactian (ECOON), ECFs) and observed at release intransactian (ECOON), of the higher dose intransactian (ECOON), and somnotence (20%). Adverse Events at an incidence 3.1% in Short-Term Fixed-Dose Intransactian Trials: The totalong list enumerates the treatment emergent adverse events that occurred in 1% of ECOON (planters) in the higher dose groups) and at least twee that of the lowest intransactian ECOON groups by ECOON planters in time higher dose groups) and at least twee that of the lowest intransactian ECOON groups by ECOON planters in time higher dose groups) and at least twee that of the lowest intransactian ECOON groups by ECOON planters in the higher dose groups) and at least twee that of the lowest intransactian ECOON groups by ECOON planters in the higher dose groups and the lowest intransactian planters. In the planter of the ECOON planters are accounted by ECOON planters are acco psychologic speech doorder Respiratory — minited Skin and Appendages — furunculosis, sweating <u>Urogental</u> — dysmenorthea, pragism.

DRUG ABUSE AND DEPENDENCE — Cantrolled Substance Classic GEODON is not a controlled substance. OVERDOSAGE — in premarketing Intals in over \$400 abents, accidental or interminant overdosage 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).

Chor U.S. Pharmacenticals

# Control acute agitation with

# **GEODON**® for **Injection** | ziprasidone mesylate|

In schizophrenia. . .

# Rapid control\* with low EPS1-4

- Low incidence of movement disorders<sup>1-4</sup>
- Smooth transition, with continued improvement, from IM to oral therapy<sup>3,4</sup>
- May be used concomitantly with benzodiazepines<sup>2,3,5</sup>

\*In 2 pivotal studies vs control, significance was achieved at the 2-hour primary end point (10 mg study) and at the 4-hour primary end point (20 mg study).



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

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

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

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

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

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

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

Please see brief summary of prescribing information on adjacent page.

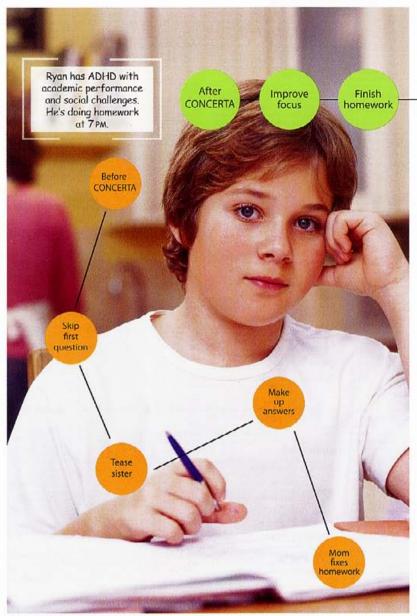
Increased Mortality in Elderly Patients with Dementia-Related Psychosis: Elderly patients with dementia-related psychosis treated with atypical antipsycholic drugs are at an increased risk of death compared to placebo. Analyses of seventeen placebo controlled trial, modal duration of 10 weeks) in these patients revealed arisk of death in the drug-treated platients 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., peat failure, sudden death) or infectious (e.g., pneumonia) in nature. GEODON (ziprasidone) is not approved for the treatment of patients with Dementia-Related Psychosis.

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

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/oharmacodynamic studies between GEODÓN and other drugs that prolong the QT interval have not beer performed. An additive effect of EEDDON and other drugs that prolong the QT interval cannot be excluded. Therefore, EEDDON should not be given with dofetilide, sotalol, quinidine, other Class Ia and III anti-arrhythmics, mesoridazine, thioridazine, chlorpromazine, droperidol pimozide, sparfloxacin, gatifloxacin, moxifloxacin, halofantrine, mefloguine, pentamidine, arsenictrioxide, levomethadyl acetate, dolasetror principles, span to be a minimum of the principles of the perial principles and the perial principles and the perial principles and the perial principles are the perial principles and the perial principles are the perial principles and the perial principles are the perial principles are the perial principles and the perial principles are the perial princ Nortally in Elderly Patients with Dementia-Related Psychosis: Elderly patients with dementia-related psychosis treated with alypical antipsychotic drugs are at an increased risk of death compared to placebo, ECDODN (ziprasidone) is not approved for the treatment of patients with dementia-related psychosis (see Boxed Warning). Of Prolongostion and Risk of Sudden Death; EGDODN was should be avoided in combination with other drugs that are known to prolong the QT, interval. Additionally, clinicians should be alert to the identification of other drugs that have been consistently observed to prolong the QT, interval. Such drugs should not be prescribed with EGDODN at Sudden Death; EGDODN arging the QT, prolonging effect of GEDODN with several other drugs effective in treatment of schizophrenia was conducted in patient volunteers. The mean increase in QT, from baseline for GEDODN anged from approximation of the Action of the proposition 30 to 4 mase greater than for four of the comparator drugs (risperidone, olarapine, quelitapine, and haloperidol), but was approximately 14 msec less than the prolongation observed for thioridazine. 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  $\Omega_1^T$  interval compared to placebo by approximately 10 msec at the highest recommended daily dose of 160 mg. In clinical trials the electrocardiograms of 2/2988 (0.06%) GEODON patients and 1/440 (0.23%) placebo patients revealed  $\Omega_1^T$  intervals exceeding the potentially clinically relevant threshold of 500 msec. In the GEODON patients, neither case suggested a role of GEODON. Some drugs that prolong the OT/OT, interval have been associated with the occurrence of lorsade de pointes and with sudden unexplained death. The relationship of OT prolongation to torsade de pointes is clearest for larger increases (20 msec and greater) but it is possible that smaller OT/OT, prolongations may also increase risk, or increase it in susceptible individuals, such as those with hypokalemia, hypomagnesemia, or genetic predisposition. Although torsade de pointes has not been observed in association with the use of GEODON inflorming disease in the interest of the control o India, tooks were outside at the time in maximum praise contentration intowing law injections to account viz mig time to supply haloperidol (7.5 mg then 10 mg) given four hours apart. Note that a 30 mg dose of intramuscular GEODON is 50%, higher than the recommended therapeutic dose. The meanchange in QT, from baseline was calculated for each drug using a sample-based correction that removes the effect of heart rate on the QT interval. The mean increase in QT, from baseline for GEODON was 4.6 msec following the second injection. The mean increase in QT, from baseline for haloperidol was 6.0 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 exceeding 400 msec. As with other antipsychotic drugs and placebo, sudden unexplained deaths have been reported in patients taking GEODON at exceeding 400 msec. As with other antipsychotic drugs and placebo, sudden unexplained deaths have been reported in patients taking GEODON at exceeding 400 msec. As with other antipsychotic drugs and placebo, sudden unexplained deaths have been reported in patients taking GEODON at the exceeding 400 msec. As well as the patient of the patients are applied to the patients and the patients are applied to the patients are applie recommended doses. The premarketing experience for GEODON did not reveal an excess of mortality for GEODON compared to other antipsycholic drugs or placebo, but the extent of exposure was limited, especially for the drugs used as active controls and placebo. Nevertheless, GEODON's larger prolongation of OT<sub>s</sub> length compared to several other antipsychotic drugs raises the possibility that the risk of sudden death may be greater for GEODON than for other available drugs for treating schizophrenia. This possibility needs the risk of sudden death may be greater for GEODON than for other available drugs for treating schizophrenia. This possibility needs to be considered in deciding among alternative drug products. Certain circumstances may increase the risk ofthe occurred forsade de pointes and/or sudden death in association with the use of drugs that prolong the QT, interval, including (1) bradycardia; (2) hypokalemia or hypomagnesemia; (3) concomitant use of other drugs that prolong the QT, interval, and (4) presence of congenitary prolongation of the QT interval. GEODON should also be avoided in patients with congenital long QT syndrome and in patients with a history of cardiac arrhythmias (see CONTRAINDICATIONS, and see *Drug Intervations* under PRECAUTIONS). It is recommended that patients being considered for GEODON treatment who are at risk for significant electrohyte disturbances, hypokalemia in particular, have baseline serum potassium and magnesium measurements. Hypokalemia (and/or hypomagnesemia) may increase the risk of QT prolongation and arrhythmia. Hypokalemia may result from diuretic therapy, diarrhea, and other causes. Patients with low serum potassium and/or magnesium should be repleted with those electrohyte shefore proceeding with treatment. It is essential to periodically monitor serum electrohytes in patients for whom diuretic therapy is introduced during GEODON treatment. Persions ECR measures are intervals may also increase the risk of further prolongation and arrhythmia, but it is not clear that routine screening ECG measures are effective in detecting such patients. Rather, GEODON should be avoided in patients with histories of significant cardiovascular illness, eg, QT prolongation, recent acute myocardial infarction, uncompensated heart failure, or cardiac arrhythmia. GEODON should be discontinued in patients who are found to have persistent QT, measurements -500 msec. Neuroleptic Mailgnant Syndrome (NMS): A potentially fatal symptom complex sometimes referred to as Neuroleptic Mailgnant Syndrome (NMS) has been reported in association with administration of antipsychotic drugs. 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 other origin to assume to concurrent energy; [2] minerals are synipointed examined an including and cylication to concomitant serious medical problems for which specific treatments are available. If a patient requires antipsychotic drug treatment after recovery from NMS, the potential reintroduction of drug therapy should be carefully considered. The patient should be carefully monitored, since recurrences of NMS have been reported. Tardive Dyskinesia (TD): A syndrome of potentially irreversible, involuntary, dyskinetic movements may develop in patients undergoing treatment with antipsychotic drugs. Although the prevalence of TD appears to be highest among the elderly, especially elderly women, it is impossible to rely upon prevalence estimates to predict, at the inception of antipsychotic treatment, which patients are likely to develop TD. If signs and symptoms of TD appear in a patient on GEODON, drug discontinuation should bearineri, which placetias are largely obeyen to 1.1 signs and symptoms or 1.2 appear in a patient for account in a consideration of the consideration of th insular ingulators of explanated by only explosited in inguistry of explanations with a state of the properties of explanations with a state of the properties of explanations patients with known cardiovascular disease (history of myocardial infarction or ischemic heart disease, heart failure or conduction abnormalities), cerebrovascular disease or conditions that would predispose patients to hypotension (dehydration, hypovolemia, and treatment with antihypertensive medications). Seizures: In clinical trials, seizures occurred in 0.4% of GEÓDON 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 a history of seizures or with conditions that potentially lower the seizure threshold, e.g., Alzheimer's dementia. Conditions that lower the seizure threshold may be more prevalent in a population of 65 years or older. <u>Dysphagia</u>: Esophageal dysmotility and aspiration have been associated with antipsychotic drug use. Aspiration pneumonal is a common cause of morbidity and mortality in elderly patients, in particular those with advanced Alzheimer's dementia, and GEODON and other antipsychotic drugs should be used cautiously in patients at risk for aspiration pneumonia. (See also Boxed WARNING, WARNINGS: Increased Mortality in Elderly Patients with Dementia Related Psychosis). Hyperprolactinemia: As with other drugs that antagonize dopamine D, receptors, GEODON elevates prolactin levels in humans. Tissue culture experiments indicate that approximately one third of human breast cancers are prolactin dependent in vitro, a factor of potential importance if the prescription of these drugs is contemplated in a patient with previously detected breast cancer. Neither clinical studies nor epidemiologic studies conducted to date have shown an association between chronic administration of this class of drugs and tumorigenesis in humans; the available evidence is considered too limited to be conclusive at this time. <u>Potential for Cognitive and Motor Impairment</u>. Somnolence was a commonly reported adverse event in GEODON patients. In the 4- and 6-week placebo-controlled trials, somnolence was reported in 14% of GEODON patients vs 7% of placebo patients. Somnolence led to discontinuation in 0.3% of trials, Somitioetice was reported in 14% of eCOUON patients by 7% or Indexide updates in sommerce and outscommand in mapping patients in short-term clinical trials. Since GEODON has the potential to impair judgment, thinking, or motor skills, patients should be cautioned about performing activities requiring mental alertness, such as operating a motor vehicle (including automobiles) or operating hazardous machinery until they are reasonably certain that GEODON therapy does not affect them adversely. <u>Praipism</u>: One case of praipism was reported in the premarketing database. <u>Body Temperature Regulation</u>: Although not reported with GEODON 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 drug therapy, GEODON prescriptions of the body's addition of the prescriptions of the provided accompany drug therapy. GEODON prescriptions by bould be written for the enablest quantified resources acceptions the production of the provided acceptance to the provided acceptance of the provided acceptance to the pr 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 heart disease. Patients with these diagnoses were excluded from premarketing clinical studies. Because of the risk of QT, prolongation and orthostatic hypotension with GEÖDON, caution should be observed in cardiac patients (see QT Prolongation and Risk of Sudden Death in

information and instructions in the Patient Information Sections hould be discussed with patients. Laboratory Tests: Patients being considered for GEODON treatment who are at risk of significant electrolyte disturbances should have baseline serum potassium and magnesium measurements, Low serum potassium and magnesium should be repleted before treatment. Patients who are started on diuretics during GEODON therapy need periodic monitoring of serum potassium and magnesium. Discontinue GEODON in patients who are found to have persistent OT, measurements >500 msec (see **WARNINGS**). *Drug Interactions*: (1) GEODON should not be used with any drug that prolongs the QT interval. (2) Given the primary CNS effects of GEODON, caution should be used when it is taken in combination with other centrally acting drugs. (3) Because of its potential for inducing hypotension, EEDDON may enhance the effects of certain antihymentess agents. (4) GEODON may antagonize the effects of levodopa and dopamine agonists. <u>Effect of Other Drugs on GEODON</u>: Carbanazepine, 200 mg bid for 21 days, resulted in a decrease of approximately 35% in the AUC of GEODON. Ketocanazole, a potent inhibitor of CYP3A4, 400 mg g of for 5 days, increased the ALC and C<sub>min</sub> of ECDOON by about 35%–40%. *Circulations*, 800 mg of for 2 days, did not affect GEDOON pharmacokinetics. Coadministration of 30 mL of *Maalox* did not affect GEODON pharmacokinetics. Population pharmacokinetic analysis of schizophrenic patients in controlled clinical trials has not revealed any clinically significant pharmacokinetic interactions with benztropine, propranolol, or lorazepam. <u>Effect of GEODON on Other Drugs</u>; in vitro studies revealed little potential for GEODON to interfere with the metabolism of drugs cleared primarily by CYP1A2, CYP2C9, CYP2C19, CYP2D6, and CYP3A4, and little potential for drug interactions with GEODON due to displacement. GEODON 40 mg bid administered concentrating vitin histma 450 mg bid for 7 days did not the steady-state level or renal clearance of lithium. GEODON 20 mg bid did not affect the pharmacokinetics of concomitantly, administered *oral* contracaptives, ethinyl estradiol (0.03 mg) and levonorgestrel (0.15 mg). Consistent with in vitro results, a study in normal healthy volunteers showed that GEODON did not alter the metabolism of dextromethorphan, a CYP2D6 model substrate, to its major metabolite, dextrophan. There was no statistically significant change in the urinary dextromethorphan/dextrorphan ratio. Carcinogenesis, Mutagenesis, Impairment of Fertility: Lifetime carcinogenisty studies were conducted with GEDOON in Long Evans rats and CD-1 mine. In male mice, there was no increase in incidence of tumors relative to controls. In female mice there were dose-related increases in the incidences of pituitary gland adenoma and carcinoma, and mammary gland adenocarcinoma at all doses tested. Increases in serum prolactin were observed in a 1-month dietary study in female, but not male, mice, GEODON had no effect on serum prolactin in rats in a 5-week dietary in one strain of s. *Opinimulum* in the auserice or metabolic activation. Power results were obtained in both the in with or mammiant algere mutation assay and the in vitro chromosomal aberration assay in human lymphocytes. <u>Impairment of Fertility</u>, CECDOM increased time to copulation in Sprague-Dawley ratis in two fertility and early embryonic development studies at doses of 10 to 160 mg/kg/day (0,5 to 8 times the MRHD of 200 mg/day on a mg/m² basis). Fertility rate was reduced at 160 mg/kg/day (8 times the MRHD on a mg/m² basis). There was no effect on fertility of female rats was reduced. *Pregnancy—Pregnancy Category* E. There are no adequate and well-controlled studies in pregnant women. GEODOM should be used during pregnancy only if the potential risks the potential risks to the fetus. *Labora and Delivery*: The reflect of GEODOM on labor and delivery; in humans is unknown. *Nursing Mothers*: It is not known whether, and if so in what amount, GEODOM 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, 2.4% (109) were 65 years of age or over. In general, there was no indication of any different tolerability for GEODON or of reduced clearance of GEODON in the elderly compared to younger adults. Nevertheless, the presence of multiple factors that might increase the pharmacodynamic response to GEODON, or cause poorer tolerance or orthostasis, should lead to consideration of a lower starting dose, slower titration, and careful monitoring during the initial dosing period for some elderly patients. ADVERSE REACTIONS—Adverse Findings Observed in Shart-term, Placebo-Controlled Trials: The following findings are based on the short-term placebo-controlled premarketing trials for schizophrenia (a pool of two 6-week, and two 4-week fixed-dose trials) and bipolar mania (a pool of two 3-week flexible-dose trials) in which GEODON was administered in doses ranging from 10 to 200 mg/day. Adverse Events Associated with Discontinuation: Schizophrenia. Approximately 4.1% (29/702) of GEODON-treated patients in short-term, placebo-controlled studies discontinued treatment due to an adverse event, compared with about 2.2% (6273) on placebo. The most common event associated with dropout was rash, including 7 dropouts for rash among GEODON patients (1%) compared to no placebo patients (see PRECAUTIONS). Bipolar Mania: Approximately 6.5% (18/279) of GEODON-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 GEODON-treated patients were akathisia, anxiety, depression, dizziness, dystonia, rash and vomiting, with 2 dropouts for each of these events among GEODON patients (1%) compared to one placebo patient each for dystonia and rash (1%) and no placebo patients for the remaining adverse events. Adverse Events at an Incidence 25% and at Least Twice the Rate of Placebo: The most commonly observed adverse events associated with GEODON in schizophrenia trials were somnolence (14%) and respiratory tract infection (8%). The most commonly observed adverse events associated with the use of GEODON in bipolar mania trials were somnolence (31%), extrapyramidal symptoms (31%), dizziness (16%), Aathisia (10%), Jahnormal vision (6%), asthenia (6%), and vomiting (5%). The following list enumerates the treatment-emergent adverse events that occurred unity acute therapy, including only those events that occurred in 2% of 6ED00N patient at a greater incidence than in placebo. Schizophrenia: <u>Body as a Whole</u>—asthenia, accidental injury, chest pain. <u>Cardiovascular</u>—tachycardia. <u>Digestive</u>—nausea, constitution, dyspepsia, diarrhea, dry mouth, anorexia. <u>Nervous</u>—extrapyramidal symptoms, somnolence, aktifications. <u>Respiratory</u>—respiratory—respiratory tract infection, rhintis, cough increased. <u>Stain and Appendages</u>—rash, fungal dematitis. <u>Special Senses</u>—abnormal vision. <u>Bipolar Mania: Body as a Whole</u>—headache, asthenia, accidental injury. <u>Cardiovascular</u>—hypertension. <u>Digestive</u>—nausea, diarrhea dry mouth, womiting, increased salivation, tongue elemen, dyshapia, <u>Musculoskeletal</u>—mylad. <u>Nervous</u>—somnolence, extrapyramidal symptoms, dizziness, akathisia, anxiety, hypesthesia, speech disorder. <u>Respiratory</u>—pharyngtis, dyspnea. <u>Skin and Appendages</u>—tungal dermatitis. <u>Special Senses</u>—abnormal vision. <u>Dose Dependency:</u> 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 mouth, increased salivation, arthralatia, anxiety, dizziness, dystonia, hypertonia, somnolence, termor, rhinitis, rash, and abnormal vision than the properties of the proper (16%), akathisia (10%), abnormal vision (6%), asthenia (6%), and vomiting (5%). The following list enumerates the treatment-emergen Extrapyramidal Symptoms (FSP): The incidence of reported EPS for GEOD ON 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. Vital Sign Changes: GEODON is associated with orthostatic Scale did not generally show a difference between GEODON and placebo. Wital Sign Changes: GEODON is associated with orthostatic hypotension (see PRECAUTION). Weight dain: In short-term schizophrenia trials, the proportions of patients meeting weight gain criterion of 27% of body weight were compared, revealing a statistically significantly greater incidence of weight gain for GEODON patients (10%) vs placebo patients (4%). A median weight gain of 3.6 kg was observed in GEODON patients vs 0.0 kg in placebo patients weight gain was reported as an adverse event in 0.4% of both GEODON and placebo patients. During long-term therapy with GEODON, a categorization of patients at baseline on the basis of body mass index (BMI) showed the greatest mean weight gain and the highest incident of clinically significant weight gain (-7% of body weight) in patients with a low BMI (-23) compared to normal (32-27) or overweight (-27) patients. There was a mean weight gain of 1.4 kg for patients with a "low" baseline BMI, 0.0 kg for patients with a "normal" BMI, and a 1.3 kg mean weight loss for patients with a "high" BMI. ECG Changes: GEODON is associated with an increase in the 0T; interval (see WARNINGS). In schizophrenia trials, GEODON was associated with a mean increase in heart rate of 1.4 beats per minute decrease among placebo patients. Other Adverse Events of Uservee events are those occurring in 1.4 low 100 to 1/100. Frequent adverse events are those occurring in at least 1/100 patients, infrequent adverse events are those occurring in at least 1/100 patients, infrequent adverse events are those occurring in fewer than 1/1000 patients. Schizophrenia: Body as a Whole—Frequent: abdominal pain, flu syndrome, fever, accidental fall, face edema, chills, photosensitivity reaction, flank pain, hypothermia, motor vehicle accident. Cardiovascular System—Frequent tachycardia hypertension postural hypotension; Infrequent hradycardia angina pectoris atrial fibrillation; Bare, first-<u>System — Preguent, activity and in present a control properties of the present and present a digital pecunity, and monitation, have indegree AV block, buildle branch block, phlebitis, pulmonary embolus, cardiomegaly, cerebral infrarct, cerebrovascular accident, deep thrombophlebitis, myocarditis, thrombophlebitis, <u>Digestive System — Frequent annexia, vomiting, Infrequent: retal hemorrhage, dysphagia, tongue edema; Rare; gum hemorrhage, jaundice, fecal impaction, gamma glutamyl transpeptidase increased, hematemesis,</u></u> dysphaga, tongue eering r, Arar; um menormage, jaunoice, tecal impaction, garmina gluurny transpeptioase increased, nemarenteering cholestatic jaunotice, hepatitis, hepatomegaly, leukoplakia of mounth, fathy liver deposit, melena \_Endocrine— Arar trypothyriotism, hyperthyriotism, thyrioditis. Hemic and Lymphatic System— Infrequent: anemia, lecchymosis, leukocytosis, leukopenia, eosinophilia, lymphadenopathyr, Rare thrombocytopenia, hypochromic anemia, lymphocytosis, monocytosis, basophilia, lymphadema, polycythemia, thrombocythemia. Metabolic and Nutritional Disorders— Infrequent: thirst, transaminase increased, peripheral edema, hypertylycemia, creatine phosphokinase increased, allaline phosphatase increased, hypertholesteremia, dehydration, lactic dehydrogenase increased, albuminuria, hypockalemia. Rare: BUN increased, creatinie increased, hypertholesteremia, hypockalemia, hypochloremia, hypockalemia, hypochloremia, hypockalemia, hypochloremia, hypockalemia, hypochloremia, hypoch hypoglycemia, hyponatremia, hypoproteinemia, glucose tolerance decreased, gout, hyperchloremia, hyporuticemia, hypocalcemia, hypoglycemic reaction, hypomagnesemia, ketosis, respiratory alkalosis. <u>Musculoskeletal System</u> — Frequent: myalqia; Infrequent: tensoryowitis; Rare myoqathy <u>NervoysSystem</u> — Frequent agitation, etarpyramidal syndrome, termor, dystan, hypertonia, dyskinesia, hostility, twitching, paresthesia, confusion, vertigo, hypokinesia, hyperkinesia, abnormal gait, oculogyric crisis, hypesthesia, oysancia, rosumy, meming, puctaining, declaring, controlly rogery hybridises, ryperintense, incoming and controlly received the attack, america, ryperintense, opportunitely attack, and attack, america, opportunitely, romanica, controlled the attack, and atta relieves increased, training, <u>Heigoration y System</u>— *Prequent*: Oyspinas, *Imrequent*: Ineurophical, episcaxis, *Fate*: memoprysis, larryingents, Skin and <u>Appendages</u>— *Infrequent*: maculopapular rash, uriciaria, alopecia, eczema, exfoliative dermatitis, contact dermatitis, vesiculobullous rash. <u>Special Senses</u>— *Frequent*: fungal dermatitis; *Infrequent*: conjunctivitis, dry eyes, tinnitus, blepharitis, cataract, photophobia; *Patre*: eyehemorrhage, visual field delect, keratitis, keratoconjunctivitis. <u>Urogenital System</u>— *Infrequent*: impotence, abnormal eiaculation, amenorrhea, hematuria, menorrhagia, female lactation, polyuria, urinary reletation, metrorrhagia; male sexual dysfunction, uterine hemorrhage. Adverse Finding **Observed in Trials of Intramuscular GEODON**: in these studies, the most commonly observed adverse events association with the use of intramuscular GEODON is fath in biples robe groupe; at least busine with the use of intramuscular GEODON (5-8%) and becaused at a circle on intramuscular GEODON in the biples robe groupe; at least busine. with the use of intramuscular GEODON (≥5%) and observed at a rate on intramuscular GEODON ( in the higher dose groups) at least twice with the use of intramuscular ecutions (as 2%) and ooseyed at a rate of informuscular Ecution (in the inginer dose groups) at a rate what of the lowes intramuscular GEDDON group were headache (13%), nausea (12%), and somnolone (20%), Afverse Events at an Incidence >1% in Short-Term Fixed-Dose Intramuscular Trials: The following list enumerates the treatment-emergent adverse events that occurred in ≥1% of GEDDON patients (in the higher dose groups) and at least twice that of the lowest intramuscular GEDDON groups and the sex of the lowest intramuscular GEDDON groups and the sex of the lowest intramuscular GEDDON groups and the sex of the lowest intramuscular GEDDON groups and the lowest intramuscular GEDDON groups are lowest intramuscular GEDDON groups and the sex of the lowest intramuscular GEDDON groups are lowest intramuscular GEDDON groups and the lowest intramuscular GEDDON groups are lowest intramuscular GEDDON groups and the lowest intramuscular GEDDON groups are lowest intramuscular GEDDON groups and the lowest intramuscular GEDDON groups are lowest intramuscular GEDDON groups and at least twice that of the lowest intramuscular GEDDON groups are lowest intramuscular groups are lowest intramuscular gro cogwheel rigidity, paresthesia, personality disorder, psychosis, speech disorder. <u>Respiratory</u>—rhinitis. <u>Skin and Appendages</u>—furunculosis, sweating. <u>Urogenital</u>—dysmenorrhea, priapism. **DRUG ABUSE AND DEPENDENCE**—*Controlled Substance Class*: GEODON is not a controlled substance. <u>OVERDOSAGE</u>—In premarketing trials in over 5400 patients, accidental or intentional overdosage of GEODON was documented in 10 patients. All patients survived without sequelae. In the patient taking the largest confirmed amount (3240

omorstacinypotension/with GLUDUN, activities with the United States of The Cauthorn Should be dead in Cardac patients (see UI Prolongation and its & States and effective use of GEODON, the WARNINGS and Off-Instatic Hypotension in PRECAUTIONS). Information for Patients' to ensure safe and effective use of GEODON, the References: 1. Daniel DG, Potkin SG, Reeves KR, Swift RH, Harrigan EP, Intramuscular (IM), ziprasidone 2.0 mg is effective in reducing acute agitation associated with psychosis: a double-blind, randomized trial. Psychopharmacology. 2001;155:128-134. 2. Lessem MD, Zajecka, MJ, Swift RH, Reeves KR, Harrigan EP, Intramuscular ziprasidone, 2 mg versus 10 mg, in the short-term management of agitated psychotic patients. J. Clin Psychiatry. 2001;62:12-18. 3. Brook St. Walden J, Benattia I, Siu CO, Romano SJ. Ziprasidone and haloperidol in the treatment of acute exacerbation of schizophrenia and schizoaffective disorder: comparison of intramuscular and oral formulations in a 6-week, randomized, blinded-sassessment study. Psychopharmacology. 2005;178:516-18-523. 4. Brook St. Lucey JV, Gunn KP, for the Ziprasidone IM Study Group. Intramuscular ziprasidone compared with intramuscular haloperidol in the treatment of acute exacerbation of schizophrenia and schizoaffective disorder: comparison of intramuscular and oral formulations in a 6-week, randomized, blinded-schizophrenia and schizoaffective disorder: comparison of intramuscular haloperidol in the treatment of schizophrenia and schizoaffective disorder: comparison of intramuscular haloperidol in the treatment of acute exacerbation of schizophrenia and schizoaffective disorder: comparison of intramuscular haloperidol in the treatment of schizophrenia and schizoaffective disorder: comparison of intramuscular haloperidol in the treatment of acute exacerbation of schizophrenia and schizoaffective disorder: comparison of intramuscular and oral formulations in a 6-week, randomized, blinded-to-schizophrenia and schizophrenia and schizophrenia and schizophrenia and



# show Mom WITH CONCERTA

- Improved academic performance through 7 PM, as demonstrated by improved math test performance in a laboratory school setting!
- Improved social interactions at school and at home with one morning dose<sup>1,2</sup>
- Smooth delivery and consistent improvement of ADHD symptoms through 12 hours<sup>1,3</sup>
- Proven low rates of side effects and
   7 years of clinical experience
- The #1 prescribed ADHD product for children and adolescents with ADHD<sup>4</sup>

Representative patient portrayal

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### IMPORTANT SAFETY INFORMATION

CONCERTA is indicated for the treatment of attention deficit hyperactivity disorder (ADHD) in children and adolescents. CONCERTA should not be taken by patients with: significant anxiety, tension, or agitation; allergies to methylphenidate or other ingredients in CONCERTA; glaucoma; Tourette's syndrome, tics, or family history of Tourette's syndrome; current/recent use of monoamine oxidase inhibitors (MAOIs). Children under 6 years of age should not take CONCERTA. Abuse of methylphenidate may lead to dependence.

Use with caution in patients with psychosis, bipolar disorder, history of seizures/EEG abnormalities, and hypertension. CONCERTA should not be used in patients with pre-existing severe gastrointestinal narrowing, known structural cardiac abnormalities, or other serious heart problems. Stimulants may cause new psychotic or manic symptoms. Aggressive behavior/hostility should be monitored in patients beginning treatment.

The most common adverse events reported in children receiving up to 54 mg were headache, upper respiratory tract infection, and abdominal pain. The most common adverse events reported in adolescents receiving up to 72 mg were headache, accidental injury, and insomnia.

References: 1. Pelham WE, Gnagy EM, Burrows-Maclean L, et al. Once-a-day Concerta methylphenidate versus three-times-daily methylphenidate in laboratory and natural settings. Pediatrics. 2001;107(6). Available at: http://www.pediatrics.org/cgi/content/full/107/6/e105.
2. Widens TE, McBurnett K, Buistein O, et al. Multisite controlled study of OROS\* methylphenidate in the treatment of adolescents with attention-deficit/hyperactivity disorder. Arch Pediatr Adolesc Med. 2006;160:82-90. 3. Swanson I, Gupta S, Lam A, et al. Development of a new once a-day formulation of methylphenidate for the treatment of attention-deficit/hyperactivity disorder: proof-of-concept and proof-of-product studies. Arch Gen Psychiatry. 2003;60:204-211. 4. IMS Health, National Prescription Audit, March 2007.

### Please see brief summary of full Prescribing Information on next page.

CONCERTA and OROS are registered trademarks of ALZA Corporation.

### CONCERTA® (methylphenidate HCI) Extended-release Tablets

ing CONCERTA®, please see full prescribing information.

INDICATION AND USAGE
Attention Deficit Hyperactivity Disorder (ADHD): CONCERTA® is indicated for the treatment of Attention Deficit Hyperactivity Disorder (ADHD): the Attention Deficit Hyperactivity Disorder (ADHD): the Original Program: CONCERTA® is indicated as an integral part of a total twellmant program for ADHD that may include other measures (psychological, educational, cocial) for patients with this syndrome. Drug treatment may not be indicated for all patients with this gendrome. Similaritars are not intended for use in patients who exhibit syndrome secondary to environmental factors and/or other primary psychialric disorders, including psychosis. Appropriate educational placement is essential and psychosical intervention is eithen helpful. When remedial measures alone are insufficials, the decision to prescribe stimulant medication will depend upon the physician a accessment of the chronicity and severity of the patient's symptoms. Long-term Use: the effectiveness of CONCERTA® for long-term use, for more than 4 weeks, has not been systematically evaluated in conducted that. Therefore, the physician who obsects to use CONCERTAR for extended periodic about periodically re-available the long-term usefulness of the drug for the individual patient (see DOSAGE AND ADMINISTRATION in full prescribing information).

CONTRAINOICATIONS

Agitation: CONCERTA\* is contraindicated in patients with marked anxiety, tension, and agitation, since the drug may aggravate these agreements. Hypercensitivity to Methylphenidate: CONCERTA\* is contraindicated in patients known to be hypercensitive to methylphenidate or other components of the product. Glaucoma: CONCERTA\* is contraindicated in patients with glaucoma: TOONCERTA\* is contraindicated in patients with glaucoma: TOONCERTA\* is contraindicated of Tooreta's syndrome (see ADVERSE REACTIONS). Monoamine Oxidase Inhibitors: CONCERTA\* is contraindicated during freatment with monoamine outdase (ARGI) inhibitors, and also within a minimum of 14 days following discontinuation of a MAD-inhibitor (hypertensive crises may result) (see PRECAUTIONS, Drug Interactions).

WARNINGS
Serious Cardiovascular Events: Sudden Death and Pre-working Structural Cardine Aproximatives or Other Serious Heart Problems:
Children and Adolescents: Sudden death has been reported in association with CRIS stimulant treatment at esual doses in children and adolescents with structural cardina abnormalities or other senious heart problems. Although some senious heart problems adone cardinaries and increased risks of sudden adah, Islandiant products generally should not be used in children or adolescents with known senious structural cardinaries, cardinaryspathy, serious heart rhythin abnormalities, or other serious cardinar problems that may place them at inspected violational structural cardinaries. cardiac abnormabiles, cardiomycpathy, serious heart mythm abnormatibles, or other serious cardiac problems that may place them at increased vulnerability to the sympathorimetic effects of a stimulant drug. Adults: Sudden deaths, stroke, and myocardial infarction have been reported in adults being stimulant drug at usual doses for ADHU. Althorigh the role of stimulants in these discusses is also unknown, adults have a greater likelihood than children of having serious criticard cardiac abnormables, cardiomycpathy, serious heart rhythm abnormables, coverary artary disease, or other serious cardiac problems. Adults with such abnormables should also generally not be treated with stimulant drugs. Hypertension and Other Cardiovascular Conditions; Stimulant medications cause a modest increase in average blood pressure (about 2-4 minleg) and average heart rate (about 3-5 bpm) [see Adverse Resctions-Hypertension], and individuals may have larger increases. While the mean changes also would not be expected to know stort-term consequences, all pasents should be monitored for larger changes in heart rate and blood pressure. Cardion is indicated in treating potients whose underlying medical conditions might be compromised by increases in blood pressure or heart rate, e.g., those with pre-existing bypertension, heart failure, recent impocardial inflanction, or verificialar arrhythmia. <u>Associano Cardiovascular Status in Patients Being Treated With Stimulant Medications;</u> Children, adolescents, or adults who are being consistered for treatment with stimulant medications, blood have a careful history (childring assessment for a family history of sudden death or ventication arrhythmia and physical exam to assess for the presence of cardiac disease, and should receive further cardiac evaluation it tridings suggest such disease (e.g., electrocardiogram and echocardiogram). Patients who devolop symptoms cut a exertinal chear any implement spinope, or other symptoms publication of stimulants may exacerbate symptoms of behavior disd

syncope, or other symptome suggestive of cardiac disease during stimulant treatment should undergo a prompt cardiac evaluation.

PPSCHARTIC ADVERSE EVEITS

Pre-Existing Psychosis: Administration of stimulants may exacerbate symptoms of behavior disturbance and thought disorder in patients with a pre-existing psychotic disorder. Bipolar illiness: Particular care should be taken in using stimulants to treat ADMI in patients with a pre-existing psychotic disorder. Bipolar illiness: Particular care should be taken in using stimulants to treat ADMI in patients with comorbid bipolar disorder. Because of concern for possible induction of a minoritimanc episode in such patients. Prior to initiating treatment with a stimulant, patients with comorbid depressive symptoms should be adequately screened to determine if they are strick for higher disorder. Emergence of New Psychotic or Manic Symptoms: Treatment owners prescribed or such special disorder, and depression. Emergence of New Psychotic or Manic Symptoms: Treatment owners psychotic or manic symptoms, e.g., allalicinistins, deliusional Thinking, or manis in hiddren and adolescents without a prior history of psychotic intending, or manis in hiddren and adolescents without a prior history of psychotic intending, or manis in hiddren and adolescent without a prior history of psychotic intending and manifest or amphetament or several wooks at usual doces; of stimulant-treated patients compared to 0 in placebo-treated patients. Aggression, Aggression showor of nobibly is other observed in children and adolescents with ADMI, and has been reported in clinical trials and the posteraristential expenses on the properties of expenses behavior of nobibly is often observed in children and adolescents with ADMI, and has been reported in clinical trials and the posteraristenty expenses of the properties of interrupted. Settures: There is some clinical evidence that stimulants may lower the comulative threshold in patients with poor history of saitures, in patients with prof. EEG adhormatities in absence of secures, and, very rarely, in patients without a history of secures and no prior EEG evidence of secures. In the presence of secures, the drug should be discontinued, visual Disturbance: Difficulties with accommedation and bitming of vision have been reported with stimulant treatment. Potential for Gastrointestinal obstruction: Because the COMIDERIAN table is nondeformable and does not appreciably change in shape in the GI tract, COMIDERIAN should not ordinarily be administered to patients with predictions govere gastrointestinal narrowing (pathologic or latrogenic, for example: esophageal motility disorders, small bowel inflammatory disease, "short gut" syndrome due to addressions or decreased trainst time, past history of perflicting, cyclic thickness, chronic international posturodostruction, or Mecket's disencefularily. There have been rare reports of obstructive symptoms in patients with known structures in association with the nigostion of drugs in nonceformable controlled-release design of the tablet, CUNCERIAN\* should only be used in patients who are aske to swallow the tablet whole (see PRECAUTIONS: Information for Patients). Use in Children Under Six Years of Ager CONCERIA' should not be used in children under six years, since safely and efficacy in this age group have not been established.

CONCERTA® should be given cautiously to patients with a history of drug dependence or alcoholism. Chronic abusive use can lead to marked talesamen and psychological dependence with varying degrees of abnormal behavior. Frank psycholic seisodes can occur, esquisidly with parasitant alases. Careful aspension is required during withdrawal from abusite use since severe depression occur. Withdrawal foliological control through the severe depression occur.

### PRECAUTIONS

Fraction Monitoring: Periodic CBC, differential, and platelet counts are advised during prolonged therapy. Information for Patients: Prescribers or other health protessionals should inform potients, their families, and their caregivers about the benefits and risks associated with reatment with methylphenidate and should counsel them in its appropriate use. A potient Medication Cuide is evaluable for CONCERTA\*. The prescriber or health professional should instruct patients, their families, and their caregivers to read the Medication. for CDICCETTA\*. The prescriber or health professional should instruct patients, their families, and their correjaves to read the Modication Exide 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 acrovers to any questions they may have. The complete text of the Medication Guide is reprinted at the end of the full prescribing information. Patients should be informed that CDICCTTA\* should be assaltowed whole with the did of fajulds. Tablets should not be chewed, divided, or crushed. The medication is contained within a nonstorable shell designed to release the drug at a controlled rate. The tablet shell, along with insoluble one components, is eliminated from the body; potients should not be concerned if they occasionally motics in their stool something that looks like a biblet. Drug Interactions: CDINCCTTA\* should not be used in patients being treated (currently or within the proceeding 2 works) with MAO inhibitors (see CONTRAINDIGATIONS, Monoemine Oxides Inhibitors). Decause of possible increases in blood pressure, CONCETTA\* should be used cautiously with any open controlled that the proceeding 2 works) with MAO inhibitors (see CONTRAINDIGATIONS, Monoemine Oxides Inhibitors). Decause of possible increases in blood pressure, CONCETTA\* should be used cautiously with repulsive inhibitors. Decause of possible increases in blood pressure, CONCETTA\* should be used cautiously with repulsive inhibitors. Decause of possible increases in blood pressure, CONCETTA\* should be used cautiously with repulsive inhibitors. Decause of possible increases in blood pressure, CONCETTA\* should be used cautiously with repulsive inhibitors. Decause of possible increases in blood pressure, concentrations for command and pressure inhibitors). Determined asset educationed of these drugs may be required when given concombatiny with inhibitypinehouse. It may do necessary to adjust the dosage and monitor plasma drug concentrations or, in the case of countain, coegulation than inhibitypinehouse, when inhibiting or discontinuing concombant methyphenidate. Serious adverse events have been reported in concombant use with clonidine, although no causality for the combination with condition as other centrally acting alpha-2 agonists has not been systematically evaluated. Carcianogenesis, Mutagenesis, and imperiment of Fertility: In aldeline acroniogenicity study carried out in BeGST-1 mice, methylphenidate caused an increase in hepatocellular adenomes and, in males celly, an increase in hepatocellular adenomes and, in males celly, an increase in hepatocellular adenomes and, in males celly, an increase in hepatocellular adenomes and, in males celly, an increase in hepatocellular adenomes and, in males celly, an increase in hepatocellular adenomes and, in males celly, an increase in hepatocellular adenomes and it mice the maximum recommended human dose of CONCERTA\* on a mg/kg and mg/kg. This dose is approximately 20 times and 4 times the maximum recommended human dose of CONCERTA\* on a mg/kg and mg/kg hepatocellular adenomes and, in increases in humans is a littleme carcinogenicity study carried out in F344 rask; the highest dose used was approximately 45 mg/kg/dgg, which is approximately 22 times and 5 times the maximum recommended human dose of CONCERTA\* on mg/kg and mg/kg has, which is approximately 22 times and 5 times the maximum recommended human dose of CONCERTA\* on a mg/kg and mg/kg has, which is approximately and the second proximately and mg/kg has a second proxima

the maximum recommended human close of CONCERTA\*\* on a mg/kg and mg/m² basis, respectively. The approximate plasma exposure to methylphenidate plus its main metabolile PPM\* in pregnant rats was 2 times that seen in trats in volunteers and patients with the maximum recommended dose of CONCERTA\*\* based on the AUC. The safety of methylphenidate for use during human prognancy has not been established. There are no adequate and well-controlled solutions in pregnant women. CONCERTA\*\* should be used apprepancy only if the potential benefit justifies the potential risk to the fatus. Nursing Mothers: it is not known whether methylphenidate is excreted in human milk. Because may drug are excreted in human milk. Because may drug are excreted in human milk. Section should be exercised a CONCERTA\*\* is administrated to a nursing wroman. Pediatric Use: The safety and efficacy of CONCERTA\*\* in children under it years od have not been established. Long-term effects of methylphenidate in children have not been well established (see WARNINGS).

effects of multilyphenicate in children have not been well satisfished (see WARRINGS).

ADVERSE REACTIONS

The development program for CONCERTAP included exposures in a total of 2121 participants in clinical trials (1797 patients, 324 healthy adult subjects). These participants received CONCERTAP 18, 36, 54 and/or 72 mg/day, Children, adolescents, and adults with AOHD were evaluated in four controlled directal studies, there open-table clinical studies and two clinical pharmacology studies. Adverse reactions were assessed by collecting adverse events, results of physical examinations, vital signs, weights, laboratory analyses, and ECGs. Adverse events during exposure were obtained primarily by general inquiry and recorded by clinical investigators using larminology of their own choosing. Consequently, it is not possible to provide a meaningful estimate of the proportion of individuals experiancing adverse events without first grouping similar types of events into a smaller number of standardoced event categorists. In the lables and listings that follow, COSTART fermionology has been used to classify reported adverse events. The stated frequencies of adverse event seems are represent the proportion of individuals who experienced, at least once, a treatment-emergent adverse event of the topic place of the proportion of individuals with experienced at least once, a treatment-emergent adverse event of the proportion of patient (10-95; 1710s) and one patient to the received patient (10-95; 1710s) and one patient to expend the proportion of individuals with experienced, at least once, a treatment-emergent adverse event (10-95) of the control of the first time or vocasional device occurred to the first time or vocasional adverse event development (10-95; 1710s) and control of the first time or vocasional device control of the proportion of t

or crug and nor	Incidence of Treatme Placebo-Controlled Clir	TABLE 1 nt-Emergent E	vents* in a 4-Week	Events, regardless of causality, for which the incidence for patients
Dody System	Preferred Term	CONCERTA® (n=106)	Placebo (n= 99)	treated with CONCERTA® was at least 1% and
General	Headache Abdominel pain (storrachache)	14 % 7 %	10 % 1 %	greater than the incidence amono
Digestive	Yomiting Ancrexia doss of appetite)	4%	3%	placebo-treated patients. Incidence has been
Nervous	Dizziness Insormia	2 % 4 %	0 %	rounded to the nearest whole number
Respiratory	Upper Respiratory Tract Infection Cough Increased Pharyogitis	4 % 4 %	5 % 2 % 3 %	
	Sinusitis	3 %	0 %	1

Table 2 lists the incidence of treatment-emergent adverse events for a 2-week placebo-controlled trial (Study 4) in adolescents with

		TABLE 2 Treatment-Emergent E	vents' in a 2-Week CERTA" in Adolescents	<sup>1</sup> Events, regardless of causality, for which the incidence for patients
Body System	Preferred Term	CONCERTA** (n=87)	Placebo (n= 90)	treated with CONCERTA® was at least 2% and
General	Accidental injury	6%	3 %	greater than the
	Fever	3 %	0 %	incidence among
	Headache	9 %	8 %	placebo-treated patients.
Digestive	Anorexia	2 %	0 %	Incidence has been
	Diamhea	2 %	0 %	rounded to the nearest
	Vomiting	3 %	0 %	whole number.
Nervous	Insomnia	5 %	0.50	and the state of
Respiratory	Pharynoitis	2%	1 %	- 1
	Rhinitis	3 %	2 %	- 1
Urogenital	Dysmenorrhea	2 %	0 %	1

Uniquented Dyamerochiles Study (n=432 children), the cumulative incidence of new onset of tics was 9% after 27 months of beatment with CONCERTA\*. In a second uncontrolled study (n=682 children) the cumulative incidence of new onset tics was 1% (9/862 children). The treatment period was up to 9 months with mean treatment duration of 1.2 months. Hyperthesion: In the laboratory classroom chinical thiels in children (Studies 1 and 2), both CONCERTA\* and and methylpherindate of increased resting pulse by an average of 2-6 burn and produced average increases of systolic and disable, blood pressure of roughly 1-4 mm Hig during the day, relative to placebo. In the placebo-controlled adolescent trial (Study 4), mean increases from baseline in resting pulse rate were observed with CONCERTA\* and placebo-base of the GONCERTA\* and placebo-based phases of conditions. The placebo-based phase of conditions of the condition of the following adverse events inclinates in visual accommodation, mychiasis, blurred vision, thool alkaline phosphalase increased, blood bilinubin increased, abnormal liver function test (e.g., transaminese elevation), toughty-acide, applications, ambylimia, chest disconficit, restlessness, Raymout's phenomenous epithema. Impedial desir, and including a myselle including a phosphopolania, thrombocytopenia, platelet court decreased, confusional state; discontinutions, admyclay reactions sould as angloedema, apalyhated reactions, auritoria swelling, buttus conditions, exhibitation with instructions include layers existing various and adverse reaction and adverse reaction can adverse reaction and processed control of the conditions, exhibitation with instruction and the presentative discharges and purpose and adverse reaction. Appetia, and hyperase profession was an including a deverse events Tios: In a knowlerm uncontrolled study (n=432 children), the cumulative incidence of new onset of tics was 9% after 27 months (i) months experienced an MNS-wise event within 40 immutes on injecting his first dose of ventalization. It is uncertain vinction this represented a droy-drug inheraction, a response to either drug above, or some other cause. In children, loss of appetite, abdominal pain, weight loss during protonged literary, insummia, and tachycardia may occur more frequently, however, any of the other adverse reactions listed above may also occur.

DRUG ABUSE AND DEFENDENCE

Controlled Substance Class: CONCENTA®, like other methylphenidate products, is classified as a Schedule II controlled substance by lederal regulation. Abuse, Dependence, and Tolerance: See WARNINGS for boxed warning containing drug abuse and dependence

OVERDOSAGE

OVERDOSAGE
Signs and Symptoms: Signs and symptoms of acute methylpheridate overdosage, resulting principally from overstimulation of the CHS and from excessive sympathomimetic effects, may include the following: vontiling, agitation, tremos, hypereflexia, muscle twitching, convolvings (may be followed by currial), unphoria, confusions, fullucinations, definium, sweeting, flushing, fleadache, hyperpressia, tarbyrandia, applications, cardiac arrhythmias, hypertension, mydraxis, and dryness of mococamembranes.

Recommended Treatment: Treatment consists of agroupriate supportive measures. The patient must be protected against self-injury Recommended Treatment: Treatment consists of appropriate supportive measures. The patient must be protected against self-hipty and against esterilents stimuli that would against area even stimulation already present. Bashic conhects may be excaled by quastic brazge as indicated. Before performing gashic brazge, control agitation and seizures if present and protect the airway. Other measures to detaily the pull include administration of activated chancoal and a cathertic, thereave care must be provided to maintain adequate circulation and respirating exchange; extending confining procedures may be required for hypersystiat. Efficacy of provided delays or extraorgonal hemodialysis for CONCERTAP overdosage has not been established. The protoned release of methylphenidate from CONCERTAP should be considered when treating patients with overdose. Poison Control Center: As with the management of all overdoses, the possibility of multiple drug ingestion should be considered. The physician may wish to consider contacting a patient control center for up-to-date information on the management of overdosage with methylphenidate.

\*\*Reconstruction\*\* of the protoned control of the physician may wish to consider contacting a patient control center for up-to-date information on the management of overdosage with methylphenidate.

\*\*Reconstruction\*\* or all 1888-844-7930 or visit wave concernation from control center for up-to-date information on the management of overdosage with methylphenidate Rx Only. For more information call 1-888-440-7903 or visit www.concerta360.com

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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.

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

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

### Suicidality and Antidepressant Drugs

Antidepressants increased the risk compared to placebo of suicidal thinking and behavior (suicidality) in children, adolescents, and young adults in short-term studies of Major Depressive Disorder (MDD) and other psychiatric disorders. Anyone considering the use of EFFEXOR XR or any other antidepressant in a child, adolescent, or young adult must balance this risk with the clinical need. Short-term studies did not show an increase in the risk of suicidality with antidepressants compared to placebo in adults aged 65 and older. Depression and certain other psychiatric disorders are themselves associated with increases in the risk of suicide. Patients of all ages who are started on antidepressant therapy should be monitored appropriately and observed closely for clinical worsening, suicidality, or unusual changes in behavior. Families and caregivers should be advised of the need for close observation and communication with the prescriber EFEXOR XR is not approved for use in pediatric patients. (See WARNINGS: Clinical Worsening and Suicide Risk, PRECAUTIONS: Information for Patients, and PRECAUTIONS: Pediatric Use.)

prescriber. EFFEXIOR XR is not approved for use in pediatric patients. (See WARNINGS: Clinical Worsening and Suicide Risk, PRECAUTIONS: Information for Patients, and PRECAUTIONS: Pediatric Use.)

CONTRAINDICATIONS: Hypersensitivity to venlataxine 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 unit significant remission occurs. Suicide is a known risk of depression and certain other psychiatric disorders, and these disorders themselves are the strongest predictors of suicide. There has been a long-standing concern however, that antidepressants may have a role in inducing worsening of depression and the emergence of suicidality in certain patients during the early phases of treatment. Pooled analyses of short-term placebo-controlled trials of antidepressant drugs (SSRIS and others) showed that these drugs increase the risk of suicidal thinking and behavior (suicidality) in children, adolescents, and young adults (ages 18-24) with MDD and other sychiatric disorders. For them studies and analyses of placebo-controlled trials included a total of 24 short-term trials on antidepressant drugs in over 4.00 patients. The pooled analyses of placebo-controlled trials in adults with MDD, obsessive-compulsive disorder (DCD), or other psychiatric disorders included a total of 295 short-term trials (median duration of 2 months) of 11 antidepressant drugs in over 4.00 patients. The pooled analyses of placebo-controlled trials in adults with MDD or other psychiatric disorders included a total of 295 short-term trials (median duration of 2 months) of 11 antidepressant drugs in over 4.00 patients. There was monitored appropriately and observed closely for clinical worsening, suicidality, and unusual changes in behavior, especially during the initial tew monits of a course of drug therapy, or at times of dose changes, either increases or decreases. Arxiety, agitation, panie attacks, insomnia, irritability, hostility, aggressiveness, multivity, adultisis (geychomotor restlessississ), hypomania, and main have been reported in adult and nonsychiatric. Although a causal link between the emergence of such symptoms and either the worsening of depression and/or the emergence of suicidal impuises 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, september of suicidality or symptoms are severe, aburpt in orace, or were not part of the depression or suicidality, september of suicidality and the precursors to worsening depression or suicidality, september of suicidality and the suicidality and suicid

sex-matched peers. Ihe difference between observed and expected growth rates was larger for children <12 years old than for adolescents =12 years old. Changes in Appetite: Adult Patients. Treatment-emergent anorexia was more commonly reported for Effexor XR (8%) than placebo (4%) patients in MDD studies. The discontinuation rate for anorexia was 1.0% in MDD studies. The discontinuation rate for anorexia was 1.0% of the discontinuation rate for anorexia was 0.9% for up to 8 weeks in GAD studies. The adiscontinuation rate for anorexia was 0.9% for up to 12 weeks in GAD studies. The discontinuation rate for anorexia was 0.0% for Up to 12 weeks in SAD studies; no patients discontinuation rate for anorexia was 0.0% for Effexor XR (17%) than placebo (2%) patients in SAD studies. The discontinuation rate for anorexia was 0.4% for Effexor XR (8%) than placebo (3%) patients in PD studies. The discontinuation rate for anorexia was 0.4% for Effexor XR (8%) than placebo (3%) patients in PD studies. The discontinuation rate for anorexia was 0.4% for Effexor XR (8%) than placebo (3%) patients in PD studies. The discontinuation rate for anorexia was 0.4% for Effexor XR (8%) than placebo (3%) patients in PD studies. Potential was seen in pediatric patients receiving Effexor XR and MDD trials, 10% of Effexor XR patients aged 6-17 for up to 8 weeks and 3% of placebo patients had treatment-emergent anorexia. None of the patients receiving Effexor XR of the patients receiving Effexor XR (8%) than placebo (8%) patients aged 6-17 for up to 8 weeks and 3% of placebo patients had treatment-emergent anorexia decreased appetite). The discontinuation rates for anorexia or week of the patients receiving Effexor XR and placebo, respectively; the discontinuation rates for weight loss were 0.7% for patients aged 6-17 for up to 8 weeks and 5.0% in patients by a for patients and 5.0% for patients and 5.0% for patients aged 6-17 for up to 8 weeks and 5.0% in the patients of the patients with patients with patients with patients with patients wi syndholm seasons and the the order historic setting symptoms. Syndholms such as Secular many of expending and behavior, and indicate a need for very close monitoring and possibly changes in the medication. Caution patients 1; about operating hazardous machinery including automobiles, until they are reasonable in the medication. Caution patients 1; about operating hazardous machinery including automobiles, until they are reasonable with a soft sentonin syndrome with the concomitant use of Effector XR and ripidans, tramadol, tryptophan supplements or other soft sentonin syndrome with the concomitant use of Effector XR and ripidans, saprin, variarin, or other drugs that affect coaquiation. Patients should be advised to notify their physician 1) if they become pregnant uring therapy, or if they are nursing; 2) about other prescription or over-the-counter drugs, including herbal preparations and nutritional supplements they are taking or plan to take; 3) if they develop a rash, hives, or related allergic phenomen; or 4) if they have a history of glaucoma or increased intracoular pressure. Laboratory Tests—No specific aboratory tests are recommended. Drug Interactions—Alcohol. A single dose of ethanol had no effect on the psychomotor and psychometric effects induced by ethanol. Climetidine: Use caution when administering ventilazione with pharmacokinetics; (PK) of ventilazione of Ordensethylvenialazione (DV), and ventilazione did not exaggerate the psychomotor and psychometric effects induced by ethanol. Climetidine: Use caution when administering ventilazione with diazepam or affect the PK of either ventilazione or ODV. Ventilazione had not appear to affect the PK of either ventilazione or ODV. Ventilazione had not appear to affect the PK of either ventilazione or ODV. Ventilazione had not appear to affect the PK of either ventilazione or ODV. Ventilazione had not appear to affect the PK of either ventilazione or ODV. Ventilazione had not appear to affect the PK of either ventilazione or ODV. Ventilazione had not af assays. ODV elicited a dastogenic response in the in vivo chromosomal aberration assay in rat bone marrow. Impalment of Fertility. No effects on reproduction or fertility in rats were noted at oral doses of up to 2 times the MRHD on a mg/m² basis. Pregnancy—Teratogenic Effects—Pregnancy Category C. Reproduction studies in rats given 2.5 times, and rabbits given 4 times the MRHD on prim? basis) revealed no malformations in offspring. However, in rats given 2.5 times and rabbits given 4 times the MRHD, there was a decrease in pup weight, an increase in stillborn pups, and an increase in pup weight during the first 5 days of lactation when dosing began during pregnancy and continued until weaning. There are no adequate and well-controlled studies in pregnant women; use Effexor XR during pregnancy only if clearly needed. Norteratogenic Effects. Neonates exposed to Effexor XR late in the third trimester have developed complications requiring prolonged hospitalization, respiratory support, and tube feeding. Complications can arise immediately upon delivery. Reports include respiratory distress, cyanosis, apnea, seizures, temperature instability, feeding difficulty, vomiting, hypocorian, hyperforia, hyperforia, hyperforia, hyperforia, hyperforia, interest may be a feed of SNRs or a drug discontinuation syndrome. Nem exams, intability, and constant crying. This is consistent with a direct toxic effect of SNRs or a drug discontinuation syndrome. In some cases, it is consistent with servicini syndrome. When treating a pregnant woman with Effexor XR during the third trimester, carefully consider the potential risks and benefits of

treatment and consider toporting Effect. XTC in the third trimeder. Labor, Datwern, Nameting—The effect on table and calculation in control of the control o DEPENDENCE: Effexor XH is not a controlled substance. Evaluate patients carefully for history of drug abuse and observed such patients closely for signs of misuse or abuse. OVERDOSAGE: The most commonly reported events in overdosage include tachycardia, changes in level of consciousness (ranging from somnolence to coma), mydriasis, seizures, and owniting. Electrocardiogram changes (eg. prolongation of 01 interval, bundle branch block, OR, Brolongation), ventricular tachycardia, bradycardia, hypotension, rhabdomyolysis, vertigo, liver necrosis, serotonin syndrome, and death have been proported. Published retrospective studies report that ventalexine overdosage may be associated with an increased risk of fatal outcomes compared to that observed with SSRI antidepressant products, but lower than that for trivical antidepressants. Enidemiological studies have shown that ventalazionie-treated patients have a higher pre-existing burden of suicide risk factors than SSRI-treated patients. The extent to which the finding of an increased risk of fatal outcomes can be attributed to the loxicity of ventalazionie overdosage as opposed to some characteristic(s) of ventalazione-treated patients are characteristic(s) of ventalazione-treated patients is not clear. Treatment should consist of those general measures employed in the management of overdosage with any antidepressant. Ensure an adequate airway, oxygenation and ventilation. Monitor cardiac rhythm and vital signs of the segment of the propriets and symptomatic patients is not characteristic lavage with a large bore orogastric tube with appropriate airway protection, if needed, may be indicated if performed soon after ingestion or in symptomatic patients. Activated charcad 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 benefic involvement. Consider contacting a poison control center or additional information on the treatment of overdose.

1 At least 7 days should be allowed after stopping Effexor XR before starting an MAOI (see **CONTRAINDICATIONS** and **WARNINGS**). All tests / Mays should be about the first of the first o

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Like a warm embrace, Sibcy House at Lindner Center of HOPE completely envelops individuals at critical points in their mental illness, ensuring progress and a return to productivity in their lives. Sibcy House provides comprehensive care for mental health problems in an exclusive, voluntary live-in setting. Residents have access to a team of nationally recognized clinicians, who formulate a diagnosis and design an individualized approach to recovery and well-being. Residents participate in proven, evidence -based strategies for improving their health.



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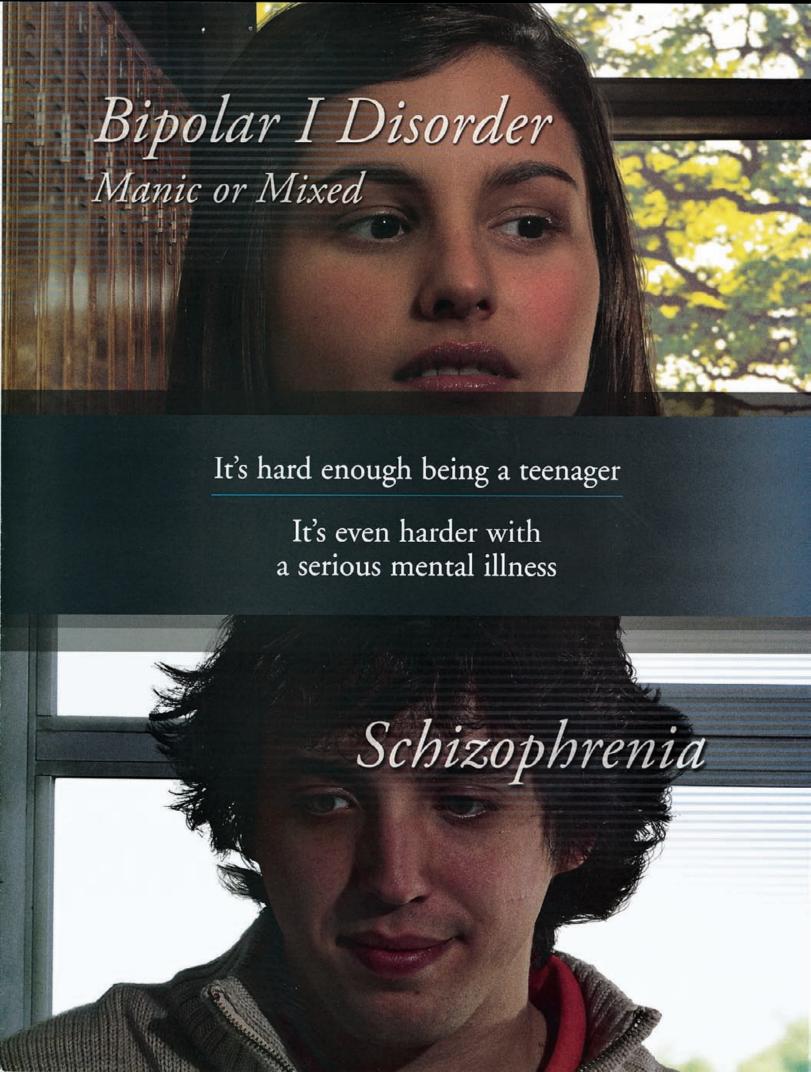


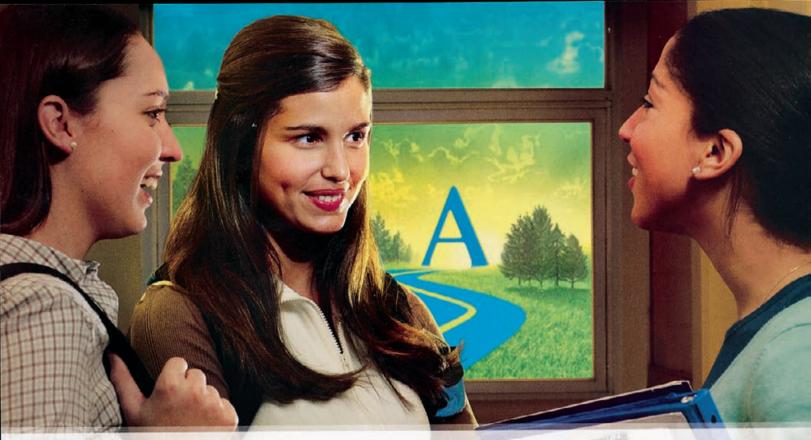
- Excellence: 16-bed, voluntary, live-in, expert diagnostic and treatment facility
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- Expertise: Evidence-based and expert driven psychopharmacologic and psychotherapeutic interventions
- Individualized: Highly specialized treatment plans, tailored to specific needs
- Collaborative: Communication with referring care providers before, during and after the treatment stay
- Specialized: Addictions treatment tracks for cooccurring alcohol/drug problems and "intensive diagnostic evaluation only" tracks available

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Understanding the Mind, Restoring the Spirit





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

# Help reveal the person within

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





## Proven effective

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

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

# Adolescent Schizophrenia (aged 13 to 17)

- Significant results demonstrated by mean change in PANSS™ Total Score at study endpoint (Week 6), in a randomized, placebo-controlled trial in adolescents with schizophrenia²
- High completion rate in large clinical trials of pediatric patients with Bipolar I Disorder, Manic or Mixed (N=296), and adolescents with Schizophrenia (N=302)<sup>1,2</sup>

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

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

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

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

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

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

Y-MRS: Young Mania Rating Scale.

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



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

Elderly patients with dementia-related psychosis treated with atypical antipsychotic drugs are at an increased 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 week) 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. ABILIFY (aripiprazole) is nut approved for the treatment of patients with dementia-related psychosis (see Warnings and Precardions).

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 any other antidepressants and 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 beyond age 24, there was

a reduction in risk with antidepressants sompared 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. ABILIFY is not approved for use in pediatric patients with theory-risk families and communication. with depression [see Warnings and Precautions]

INDICATIONS AND USAGE: Schizophrenia - ASILEY is indicated for acute and maintenance treatment of Schizophrenia in adolescents 13 to 17 years ical Studies (14.1) in Full Prescribing Information).

Bipolar Disorder - ADLEY's indicated for acute and maintenance treatment of manic and mixed cosodes associated with Boolar I Disorder with or without psycholic features in pediatric patients 10 to 17 years of age [see Ginical Studies (14.2) in Full Prescribing Information].

CONTRAMOLICATIONS: Known hypersensitivity reaction to ABILIPY Reactions have ranged from pruntus unicaria to anaphysisis [see Adverse

WARNINGS AND PRECAUTIONS: Use in Elderly Patients with Domentia-Related Psychesis - Increased Mortality: Elderly patients w

dementia-related psychosis treated with atypical antipsychotic drugs are at an increased risk of death compared to placebo. ABILITY is not approved for the treatment of patients with dementia-related psychosis [see Boxed Warning]. Corebrovascular Adverse Events, hockulding Stoke: In placebo-controlled clinical statless (live feather they and one fixed they study of dementia-Scient psychols. There was an increased incidence of confirmencials wherever events egi strake, transpert inchemic attack), including fatalities, in anyonaside-brailed patients in each age 84 years, range 78-88 years) in the fixed-door study, there was a statistically significant door response includeship for preference colors where events on patients treated with any practice. Any practice is not approved for the treatment of patients with

detection-related popularies (see also flored Warming).

Staffly Expenence in Biderly Patients with Psychopics Associated with Alcheimer's Disease: In three, 10 work, placobe controlled studies of amprovave in Biderly Patients with Psychopic absociated with Alcheimer's disease in-938, mean age. 62.4 years, range. 59-99 years, the treatment-energiest advoce event that were reported at an incidence of 38, and programe inodence at least twice that for piscebo were lettingly placed.

All programs 54,51, connections clinicating section (1) placeds 39, and programs 695, and nonchronese primaria, unarar incontroller policies 196, amportable 54,51, oncedies a controller section of the programs of the

Clinical Worsening of Depression and Suicide Rick - Patents with Macr Depressive Depoter (MDI), both adult and perform may evenenees Clinical Warnering of Depression and Suidoke Risk - Patients with Major Depressive Discribe MoUl), both about and pediatry, may separate warnering of the repression and out the emergence of suicidal section and behavior insubstating or unusual dranges in behavior, whether or not the area many attooriessant medications, and this risk may petiest until significant tension occurs. Suicide is a known risk of depression and certain stiff is populative bioxiders, and these describes threatened and the strongest prediction of suicide. There has been along standing concern, however, and the emergency of suprostion in centain patients during the early phases of treatment. However, and a feat in malacing worsening of depression and the emergency of suicidation in centain patients during the early phases of treatment. However and behavior suicidatly in a filterial additional trials of authority standard others above that those drugs increase the risk of broads thinking and behavior suicidatly in a filterial additional and the physiological standard others. Short forms standard out in flow an increase in the risk of suicidating with another pressure Biocordin MODI and other psychiatric disorders. Short forms standard out in flow an increase in the risk of suicidating with another pressure Biocordin MODI and adults depend and a suit of the properties of the suit of the standard pressure and the properties of the suit of the

The pooled analyses of placebo-controlled trabs in children and advisacents with MOD Dissessive Computave Decrete (OCD), or other psychiatric disorders included a trabe of 24 short-frem blash of 8 analyses and days in new 4240 patients. The power provides of poocedo-controlled trabs in adults with MOD in other psychiatric disorders included at lateral (245 short-frem basis remains on under psychiatric disorders in the provides at lateral (245 short-frem basis remains on under not at promise of 1 analyses of days in over 77,000 polients. There was considerable variation in risk of succiding among drugs, but a tendency toward an increase in the younger patients. over 77 (XXX) patents. There was considerable variation in risk of succiding among drops, but a tendency beard on increase in the younger patent in administrating so stated. There were difference in adsociating arross the different indications, with the highest modernor in MUU. The trisk differences litting or placebor, where restoring stated within age strata and across indications. These risk differences indications in the number of scales of succided type 1000 patents braited, were reported as increases compared to placebor. 418 (11 additional cases) 153 (25 additional cases) and becreases compared to placebor 25-64 (11 fewer cases). As obsticated cases, for succided risk in the number was not sufficient to resolve cases. More stated controlled maintained to the succided risk survivors whether the succided has additionally additional additional controlled maintained braids in adults with depression that the use of antidopressions can obey the recommon of depression.

All patients being treated with antidepressions for any indication should be monitored appropriately and observed classely for clinical expensions between a forms of the survey of the present of the processing cases.

worsening, suicidality, and unusual changes in behavior, especially during the initial few months of a course of drug therapy, or at times of

wordering, succidantly, and oriusual changes in behavior, especially during the initial few months of a course of drug therapy, or at times of dose changes, other increases or decreases.

The following symptoms: anexty, agration, panc attacks, insomnia, inhabity, hostiny, aggresowness, impulsivity, akathesi psychomotor recreaseses in promatica, and mains have been reported in adult and pediatric patients being treated with artidepressants for Major Depressive. Disorder as well as the other indications, both psychiatric and nonpsychiatric. Although a causal link between the emergence of such symptoms and either the worsening or operations and/or the emergence of such symptoms may represent precursors to emerging association.

Conditions should be given to charging the therapeutic regimen, including possibly discontinuing the medication, in patients whose depression is presidently worse, or who are experiencing emergent successfully or symptoms that highly be precurious to wiscensing depression in suicability, elipecably if these symptoms are severe, about it onset, or were not past of the publish 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, imitability, unusual changes in behavior, and the other symptoms described above, as well as the emergence of suicidatility, and for report such symptoms immediately to healthcare providers. Such monitoring should include daily observation by families and caregivers. Prescriptions for ABLEY should be written for the smallest quantity of tablets consistent with good patient management, in order to reduce the not of overdose.

Servicing Patients for Bipolic Disorder. A many decisions exceeding the third presentation of Bipolic Disorder. It is generally believed (though not established in controlled train that treating such an epocode with an artidepressant above may not use the Method of prouptation of a manethina in escool or potents at no fit of Bipolic Disorder. What is any of the syntations described above represent auch in curvarian in unknown this week prior to including the statement with an artidepressant patients with dependent syntation is should be adequately screened to determine if they are at risk for Ripolar Disorder, such screening should include a default psychiatric. Instruy mulating a family testing of smaller Bipolar theories, and depression in should be indeed that ABLEY's and approved to use in treating depression in the persisting opposition.

noted that AREAT is will approved to use in training depression in the pestatic population.

Meurolegible Malagnant Syndrome (MMS) - a potentiary that symptom complex scinetimes referred to as Neurolegible Malagnant Syndrome (MMS) and yoccur with administration of antipoyonobic drugs, including anappraisale. Rare cases of MMS occurred during anappraisale teathment in the workdards concell distincts. Chimical immatestations of MMS are hyperpressal, immade ingolfs, othered mental status, and evidence of autonomic instability irregular poles or blood pressure. Endopressal, calaborates, and cardiac dyshydromial. Additional signs may include elevated creating phisiphicknose, myoglotimuma intodolomystysis), and acute roral feature.

The dispositic evaluation of patients with this syndrome is complicated, in anying at a disposition, it is important to evaluate cases where the christian and unbested or inschedulately treated extraparamidal signs and appropriate in positions (EPS). Other important considerations in the differential disposits include central articloiderapic towards restricted. Any other important considerations in the differential disposits include central articloiderapic towards restricted. central recyclas system pathology.

certain revision system plannings.
The management of MMS product ondusts it immediate discontinuation of antipopchobic drugs and other drugs not essential to concurrent therapy. 25 interests symptomatic this pharmal management and a treatment of any concomitant consult medical problems for which specific featments are available. There is no general agreement about openful pharmacological treatment regimes for uncomplicated MMS, if a patient requires antipopchot drug training with after recovery them. MMS, the general entroduction of drug therapy should be carefully considered. The patient should be carefully monitored, since recurrences of MMS have been reported.

Tardive Dyskinesia - A synotone of potentially ineversible, involuntary, dyskinetic, inovenients may develop in patients treated with antipsychotic drugs. Author/file prevalence of the synotonie aposans to be Inglest among the which, expectably extenty women, it is impossible to rely upon

raisnice estimates to predict, at the inception of antipoychotic treatment, which patients are likely to develop the syndrome. Whether antipoychotic drug products differ in their potential to cause tardive dyskinesia is unknown.

The risk of devictioning barding dyskinesia and the Retilinoid that it will become inversible are believed to incresee as the duration of freatment and the total curvillative dose of adjuspeduols drugs administered to the patient incresse, thowever, the synthome can develop, admorph much less commonly, after relatively used treatment periods at law classes. There is no known treatment for established cases of bardine dyskinesia, admorph the syldrane may renif, partially or completely if antipsychotic instituent is withdrawn Antipsychotic presiment, itself, however, may suppress or o 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, ABUPY [arbigrazole] should be preceded in a manner that is most likely to minimize the occurrence of tardive dyslunesia.

Commic artificipations treatment about generally be reserved for petients who suffer from a chronic lifeses that (1) is a hours to respond to authorisely be reserved to replicate who suffer from a chronic lifeses that (1) is a hours to respond to authorisely be read (2) for whom attreatment, equally effective, but potentially less harmful treatments are not available or appropriate in patients who do require chronic treatment, the smallest doze and the shortest duration of treatment producing a satisfactory dirical responses should be sought. The need for continued their exhibition to the account of the satisfactory of mice and the sought. The need for continued their their should be reassessed periodically it Signs and symptoms of parties directly appear in a patient or ARILEY drag.

The reset for continued treatment should be responsed periodically it signs and symptoms of parties dyskinesia appear in a patient on ABILEY displication and coordinated between the expension of the expensions of the contribution should be considered. However, some patients may require beatinems with ABILEY despite the presence in the expensions from an electric hyperglycomia and Diabetes Meditars. Hyperglycomia, in some cases enterine and associated with violaticodes or hyperpressions come or electric has been reported in patients treated with ABILEY and not known of this more limited expensions to the solid responsions. Advocate Reactions and patients are the patients are the patients and the increasing insidence of diabetes meditars in patients with Schrophronia and the increasing insidence of diabetes meditars in the proposition. Flower these confoundary in the relationship between atypical antisportation can and impropryetizes electrical solvers events is not completely undestand. However, epidemiological studies which did not include ABILEY suggest an increased risk of treatment emergent hyperglycomic relationship advises even in a patients breated with the staylest arthrophychological of these studies. Because ABILEY was not marketed at the time these studies were performed, it is not known if ABILEY is associated with this increased risk. Precise risk estimates for hyperglycomia-related adverse events in patients treated with attitude and adverse events in patients treated with attitude and adverse events in patients.

eversion placense treates with any parall antispyrotics are not available.

Politeris with an estociated diagnosis of dishetes mellitus who are started on applical antispychotocs should be monitored regularly for worsening of glocose control. Patients with his factors for dishetes mellitus leg, obesity, family ristory of dishetes) who are starting treatment with altipical antispyrothocs should undergo fasting blood glocose testing at the beginning of treatment and periodically during treatment. Any potient treated with intigical antispyrothocs should be monitored to egynotiones. On the periodical and velocities melling the periodical with altipical antispyrothocs should undergo facting bedoed glocose testing, in some cases, hyperglycense has resolved when the shippical antispyrothoc was discontinued; however, some patients required continuation of the support drug.

Orthostatic Hypotension - Accordance may cause orthostatic bycotension perhaps due to its or achievemic recenting arithmoses. The impresser of of Michael Psychological Psychological Page 2015 (2015) in proceedings the most re-processing interpretation of inspiration of most about the most of psychological Psycho standing in signie values) for arroprizatie was not meaningfully different from piaceto unapprizatie incidence; piaceto incidence; in jedidatic crail arriprizatie-treated patients aged 10 to 17 years (Mill, 0.5%). Aproprizatie should be used with caution in patients with known carbonacolar designed history of myocarbon infanction or scheme heart designes, heart fautive or conduction abnormalises, cerebrosposcular disease, or conditions which would predispose patients to hypotension (dehydration, hypovolemia, and treatment with arithyportnoise medications).

Scizures/Connections - In short-term, placebo-controlled trials, secures/connusions occurred in 0.3% in/39% of pediatric patients into to 17 years). As with other antipoychotic drups, antipipramile should be used cautiously in patients with a history of secures or with conditions that have the secure threshold, e.g. Achievmen's dementia, Conditions that have the secure threshold, e.g. Achievmen's dementia, Conditions that have the secure threshold, e.g. Achievmen's dementia, Conditions that have the secure threshold, e.g. Achievmen's dementia, Conditions that have the secure threshold, e.g. Achievmen's dementia, Conditions that have the secure threshold, e.g. Achievmen's dementia, Conditions that have the secure threshold.

Potential for Cognitive and Motor Impairment - ABILEY, like other antipsycholoss, may have the potential to impair judgment, thinking, or moto SRIS. For example, in short-term, placebo-controlled traits, comorbino (including sectation) was reported as follows (anippraid) incidence; in pediatric patients ages 10 to 17 (21%, 5%). Somnolence (including sectation) led to decontinuation in 1% (4799) of pediatric patients (10 to 17 years) on onal ARILEY in short-term, placebo-controlled traits. Deepite the restrively modest increased incidence of these events compared patients should be cautioned about operating hazardous machinery including automobiles, until they are reasonably contain that therapy with ABILIFY does not affect them adversely.

Body Temperature Regulation - Disruption of the body's ability to reduce core body temperature has been attributed to antipsycholic agents Appropriate care is advised when prescribing artifiprazole for patients who will be experiencing conditions which may contribute to an elevcore body temperature (eg. exercising strenuncity) exposure to extreme heat, receiving concomitant medication with articholinergic activity, or being subject to delaytration; [see Arterise Reactions]

Suicide - The possibility of a suicide attempt is inherent in psychotic illnesses. Bipolar Disorder, and Major Dispressive Disorder, and class supervision of high-risk planets should accompany thing therapy. Prescriptions for ABILIFY should be written for the smallest quantity consistent with good patient management in order to reduce the risk of overdoce [see Adverse Reactions].

Oysohagia - Ecophageal dysmotifity and aspiration have been associated with influent hinting their charge. Including ABILIFY Aspiration preumonols is a

common cause of morbidity and murtality in extenty patients, in particular truste with notwinned Achievmen's dements. Appropriate and other articoyofullus drugs should be used cautinosty in patients at risk for aspiration preumonia (see Warnings and Precautions and Adverse Reactions). Use in Patients with Concomitant Illness - Clinical experience with ABILIPY in patients with certain concomitant systemic illnesses is limited (see

Use in Specific Projuctions I, ABILLEY has not been evaluated or used to any appreciable extent in patients with a recent history of improving inflammon or unstable heart disease. Patients with these diagnoses were excluded from premarkating clinical studies [see Warmings and Pracastions]. ADVERSE REACTIONS: Overall Adverse Reactions Profile - The following are diseased in more detail in other sections of the takening fave Romer

Warning and Warnings and Presculous). Use in Edichy Patients with Distingtive Resided Psychosis. Chinasi Worsening of Depression and Succide Ross. Neuroleok. Malignant Synthomic (MSS). Turker Dysburses: Hyperphysinis and Tolories Mellins: Orthosonis Hypotresson. Secures Convisionis. Pretental for Qualitive and Moral Inspariented: Rosy Temperature Regulations, Suspice, Opposings Use in Patients with Concomisation times. The most common adverse reactions in the pediathic clinical thalis (±10%) were commissioned, extragyramidal disorder, headache, and nauson.

Apprazole has been evaluated for selfy in 514 potents (10 to 17 years) who participated in multiple-dose, clinical trials in Schizonteria or Boolar Morie and who had approximately 205 patient-years of exposure to oral amproximate. A total of 276 exchizint patients were bested with unal amployacole for at least 180 days. Because clinical trials are conducted under which yearying conditions, adverse reaction rates otherwell in the clinical trials of a drug cannot be directly compared to rates in the directal trials of another drug and may not reflect the rates observed in practice. Clinical Studies Experience - Pediatric Patients (13 to 17 years) with Schizophrenia: The following Indings are based on one 6-week placebo

controlled that in which oral approache was administered in doses ranging from 2 mg/day to 30 mg/day.

Advisor Roactions Associated with Discontinuation of Treatment. The incidence of discontinuation due to advisor reactions between aripproache-treated and placeto-treated pediatric patients (13 to 17 years) was 5% and 2%, respectively.

Convolvely Otherwed Adverse Reactions: Commonly observed adverse reactions associated with the use of anippractice in addissount patients with Schlimphrenia x5% incidence and at least twice the rate of placebo were extrapyramidal disorder, somnolence, and tremor Pediatric Patients (10 to 17 years) with Bipolar Manias: The following findings are based on one 4 week placebo-controlled trial in which oral

arpiprazele was administrate in doses of 10 mg/day or 30 mg/day. Adverse Reactions Associated with Discontinuation of Realment: The incidence of discontinuation due to activene reactions between ampigrazinte-

treated and placebo-treated pediatric patients (10 to 17 years) was 7% and 2%, respectively.

Commany Observed Adverse Reactions: Commonly observed adverse risactions associated with the use of antipirazole in pediatric patients with tippoint Mania 25% incolonce and at least twice the rate of pickets for RRILEY's placeto (arpginazole n=197, placeton=197, inspectively worms of 22% is 25%, extrapyramidal disorder (25% vs. 35%), trifique (11% vs. 45%), nausea (11% vs. 45%), insertions (10% vs. 25%), blurred vision 85% vs. 05%; callivary hypotraceration (6% vs. 05%), and decliness (5% vs. 15%). extrapyramidal disorder (25% vs. 15%), extrapyramidal disorder (25% vs. 15%), extrapyramidal disorder (25% vs. 15%), and decliness (55% vs. 15%).

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

The following restricted-emergent reactions reported in pediatric patients at an incidence of a 5%, rounded to the nearest percent, with anapprazole idoses 2.2 mg/dsyl, and at a greater incidence with anapprazole train with placed during short-term light to fixwels in Schoophrenia and up weeks in Bloom Manals, placebo-controlled that is promoted the placebo in-1971, respectively, were completions (20%, 5%), outdoynamed discorder (19%, 4%), fixed placebo in-1971, respectively, were completions (20%, 5%), outdoynamed discorder (19%, 4%), fixed place (7%, 3%), durinoses (5%, 2%), termorization (4%, 5%), in-1981, and produced appoints (4%, 5%), additional (9%, 4%), fixing (7%, 3%), durinoses (5%, 2%), termorization (4%, 5%), in-1981, and produced appoints (4%, 5%), and produced (5%, 5%), and p

Dose-Related Adverse Reactions - Schizophrenia: In the study of periadric patients (13 to 17 years of ane) with Schizophrenia: three common Dose-Rédiled Adverse Reactions - Schrapphereite in the study of pediatric potents (13 in 17 years of age) with Schrapphereit, three common deserve tendance apparent to large a presider dose response retrievable entirportance identifications over picaces. Osiv. 10 mg, 11.0%, 30 mg, 21.6%, summittee of insidence were picaces. Osiv. 10 mg, 11.0%, 30 mg, 21.6%, and them of incidence were picaces. Osiv. 10 mg, 11.0%, 30 mg, 21.6%, and them of incidence were picaces. Osiv. 10 mg, 12.0%, 30 mg, 21.6%, and them of incidence were picaces. Osiv. 10 mg, 12.0%, 30 mg, 21.6%, and the picace of age) with Bipoter Maniar, but common adverse reactions read a possible dose response reactions for all 4 weeks, persupportant discorder innodences were picaces. 3.1%, 10 mg, 12.0%, 30 mg, 27.3%, 30

Designation of signatures and a soft-reproductive processor and control and an account of the processor of t

not show a difference between appropriate and placebo, with the exception of the Simpson Angus Rating Scale sarpigorazale, 0.24 slacebo, 0.29). In the podetric (10 to 17 years) short-term Spoke Manis that the Simpson Angus Rating Scale showed a significant difference between anappractic and placebo (anappractic 0.90, placebo, -0.05). Changes in the Banes Akathsia Scale and the Assessments of Instituting Wavenierd Scales were smiler for the emporagole and placebo proces.

physioniar Sales Effect. Symptoms of dystoria, provinged abnormal contractions of muscle groups, may occur in succeptible individuals during the first lew logs of treatment Dystoric symptoms include sparin of the neck muscles, sometimes progressing to bythress of the throot, available, or officially financially installing, and/or options on occur in turque. While these symptoms can occur at low doses, they occur more frequently and with greater sevenity with high potency and at higher doses of first generation antibopycholo: draigs. An elevated risk at auto-dystoms is observed in males

Laboratory Test Abnormalities. A between group comparison for 4-week to 6-week, placebe-controlled trials in pediatric patients (10 to 17 years) reveled in medically important differences between the arriphrantile and placetic groups in the proportions of powers experiencing potentially distractly supplicant changes in motive seam chemistry, hermalistry, or unsubject parameters. Similarly, there were no arriphrantile placeto distractly supplicant changes of experiencements for districtions and or experiencements are considered as the supplication of the properties of the properties

arispraztie and placeto potents (=0.13 kg/ks;=0.83 kg, respectively) and also a difference in the proportion of patients meeting a weight gain oriterion of a 7% of body weight (arispraztie (5%) compared to placeto (1%)).

Other Adverse Reactions Observed During the Premarketing Evaluation of Aripiprazola: Fellowing is a list of MedDRA terms that reflect adverse reactions as defined in Adverse Reactions injuried by patients bested with one arpproxime at multiple doses a2 migroup during any prase of a trial will in the radiative of 13,543 whill patients, coal approxime excluding those events already listed as adverse reactions in other parts of Full Prescribing information, or those considered in Warnings and Precautions Atthough the reactions reported occurring during treatment with amplication.

Pediatric Patients: Oral Administration - Most adverse events observed in the pooled database of \$14 pediatric patients aced 10 to 17 years were

also decreate in the dutil population. Additional advise cellulo observed in the pediathic operation are lated below.

Gustuminatural Describes: > (\*1000) patients and < (\*1700) patients - shope thy images thy images to the pediathic operations in the speciation in the second of the pediathic operations in the speciations of (\*1700) patients and < (\*1700) patients - shope taking, Sun and Subcutaneous Tissue Disorders: > (\*1700) patients - shope taking, Sun and Subcutaneous Tissue Disorders: > (\*1700) patients and < 1/100 patients - himutism

Postmarkating Experience - The following adverse reactions have been identified during post approval use of ASILF1 intripringate. Because these reactions are reported voluntarily from a population of uncertain size, it is not always possible to establish a causal relationship to drug exposure me obtumences of allergic reaction (anaphylactic reaction, angloederna, languageam, pruntus urbicane, or propharynogal scasmi, and blood glucose

DRUG INTERACTIONS: Giv en the primary CAS effects of ampurazole, caution should be used when ABILIFY is taken in co elly-acting chaps or alcohol. Due to its alpha adrenergic arragonism, aripgrazole has the potential to enhance the effect of certain

Potential for Other Drugs to Affect ABILEY - Aripproprie is not a substrate of OPP1A1, DYP1A2, DYP2A6, DYP2A6, DYP2A9, DYP2A99, DYP2A9, DYP2A9, DYP2A9, DYP2A9, DYP2A9, DYP2A9, DYP2A9, DYP2A9, DYP2A9

Bibli CPF344 and CPF266 are responsible for arophrative metabolism. Agents that induce CPF344 leg, carbanagepine) could cause an increase in arophrative learning and lower blood levels arobbots of CYP344 leg, veroconazolei or CYP266 leg, quandine, fluoretine, or paroretine, can wholf arophrative elimination and cause increased blood levels.

amperative elimination and cause increased bood weets.

Ketoconazolle and Other CP9344 inhibitors: Coadministration of ketoconazole (200 mg/day for 14 days) with a 15 mg single dose of amperatrie intersised the AUC of amperatrie and its active metabolit by 63% and 77%, respectively. The effect of a higher ketoconazole dose (400 mg/day) has not been studied. When teleconazole is since concomitantly with amperatrie, the amperative dose studied be reduced to method of so some discuss increased of the strong ordinators of CP9344 inhibitors. Other strong ordinators of CP9344 inhibitors are compared to the amplitude of the combination in the combination in the property of the amplitude dose.

Source in includes. Or includes and Other CYPZUS inhibitors: Cookmission of a 10 mg page abse of anographs with quindine (166 mg/kity for 13 days), a potent inhibitor of CYPZUS, increased the AUC of anoprazalle by 112% but decreased the AUC of its active metabolite, dehydro angignazale, by 33%, Apparable dose should be reduced to one-half of its normal observation exhibitors or given porconstantly with anoprazalle. Other agontscart inhibitors or OYPZUS, but an Elucative or prospective, would be expected to have animal effects and about lead to amiliar doce inductions. When the CYPZUS inhibitor is withdrawn from the combination through the aniparable doce should be increased.

Carbamazeoire and Other CYPSA4 Inducess: Clustermostetanud carbamazeoire (2011 ing Inter-delig), a prient CYPSA4 Induces, with any parameter (50 implay) resulted in an approximate (7th inter-sex in C<sub>m</sub> and AIC values of both any parameter and its active metabolite, designor approxime to active in approxime feeting approxime to active in approxime to approxime to approxime to active in approxime to active active active in approxime does should be reduced.

Potential for ABILEY to Affect Other Drugs: Applymable is unlikely to cause directly important pharmacokinetic interactions with drugs instabilized by cytochronic P450 enzymes in in vine studies. 10 mystay to 30 mystay does of an propriate lead no sporticant effect on metabolish by OP206 isochronichtophanii, CP203 isochronichtophanii, CP203 isochronichtophanii, CP203 isochronichtophanii, CP204 is the pharmacokinetics of lithium or valproate.

Alambait: There was no significant difference between arploractile coadministered with ethanol and placebo coadministered with ethanol or performance of gross motor salts or stimulus response in healthy subjects. As with most psychoactive medications, patients should be advised to avoid accord while taking ASILEY.

Drugs Having No Clinically important Interactions with ABILITY - Famobiline: Coodministration of appropriet lighers in a single dose of the fix entapoint famobiline, a potent quarte, and blooke decreased the solubility of aniparatile and hence, its rate of absorption, reducing by 37% and 21% the C<sub>max</sub> of arrippractile and dehydro-appropriate, inspectively, and by 13% and 15% inspectively. The extent of appropriate is required when administened concentrating with Standard PSM. The specified, the extent of appropriate is required when administened concentrating with Standard PSM.

Valproate: When vaproate (500 mg/day-1500 mg/day) and ampirpasole (30 mg/day) were cooliminatered, at steady-state the C<sub>ma</sub> and AUC of amplification were decreased by 25% for occase adjustment of ampirpasole is required when administered concomitantly with valproate.

When arripprazrie (30 mg day) and express (1000 mg/day) were coodminutered, at steady-state there were no clinically significant changes in the C<sub>rea</sub> or ALC of visionate. No dosage adjustment of visionate is required when administered concomitantly with arripprazole.

Lithiums A plantisk skink is interection of arripprazole with lithium is unakely because thium is not bound to plasma proteins, is not metablished, and is almost entrety experient undanged in order. Coordinate along the proposable doses of lithours (100) ingliday-floot implicitly by 21 days with approach
(30 ingliday) and not result in clinically agenticant changes in the pharmocoveness of a soften entatodial, days/order approaches
(20 increased by lites than 20%), the disappearable in disperable in regard where administered occomorbitisty with lithours.
(20 daministration of anipoparable (30 ingliday) with lithium (900 ingliday) did not result in dinically agenticant changes in the pharmocokinetics of lithium.

No disage edistributed of lithium is required when administered concombatify with anaporazale.

Lambbigine: Cavalimistration of 10 mg/by in 30 mg/by viral clases of anaporazale for 14 days to patients with Spotar i Disorder had no effect on the sheafy-state pharmacokinetics of 100 mg/by to 400 mg/by lambbigne, a UDP-glocuroposythransferase 1A4 substitute. No disage adjustment of famorhorie is required when arbiorazole is added to tamorhorie

Destrone-thorphate: Anoiprazole at doces of 10 implicity to 30 implicity for 14 days had no effect on destrone-thorphate's 0-deskivistion to its major included, a destrone-thorphate is followed to its major included, a destrone-thorphate is followed to its major included. 3-methor-impropriate is pathway dependent on CVPSA4 activity. No desage adjustment at destrone-thorphate is required when administered concomitantly with anpiorazole

Wartarin: Approxime 10 mg/day for 14 days rust no effect on the pharmacokinetics of R-warfarin and S-warfarin or on the pharmacodynamic end point of international Normalized Ratio, indicating the lack of a clinically relevant effect of appropriate on CMP2CVI and CMP2CVI interacologies or the binding of highly protein-bound worfarm. No dosage adjustment of worfarm is required when administered concomitantly with projecture

Omegrazole: Approach: 10 mg/day for 15 days had no effect on the pharmacoknetics of a single 20 mg dose of omegrazole: a CFP2C19 substrate, in healthy subjects. No dosept adjustment of omegrazole is required when administered concomitantly with approache.

in meaning supposition, on consequence of membranes in programme immediately with adoptionable immediately in the Confidence of the Confid orazepam alone (see Warnings and Precautions).

Excitalopram: Coadministration of 10 mg/day and doses of propriative for 14 days to healthy subjects had no effect on the steady-state pharmaco-scretics of 10 mg/day excitalopram is substrate of CYP2CF9 and CYP3A4. No desage adjustment of esostalopram is required when aripprative in added to escitalopram.

Westabasine: Coopministration of 10 mg/day to 20 mg/day oral doses of arrippractie for 14 days to healthy subjects had no effect on the steady-state pharmacoxinetics of vendature and 0-desmethylveniatione following 75 mg/day ventabasine XR, a CYP206 substrate. No dosage adjustment of vendature is required when arrippractie is added to ventabasine.

Newschin, Paracidini, and Schräfine. A population pharmacokinetic analysis in patients with Major Depressive Disorder showed no substantial change in plasma concentrations of fluoretine (20 mg/day or 40 mg/day), paracitine CR G25 mg/day or 50 mg/day, or sertualine (100 mg/day) or 150 mg/day does to standy-state. The steady-state plasma concentrations of fluoretine and confluence increased by about 78% and 36% especially and concentrations of paracitine decreased by about 75%. The steady-state plasma concentrations of paracitine and extremely extensive and extramined and paracitine and extremely extensive and extramined and paracitine and extramined and paracitine and extramined and paracitine and paracitine and extramined and paracitine and paracitine and extramined and paracitine and paracitine of paracitine or 2 mg/day to 20 mg/day (when given with softmannia).

USE IN SPECIFIC POPULATIONS: In general, no decays adjustment for AGLEY impropracies is required on the basis of a patient's age, gender, nace, smoking status, recade, function, or resul function (see Bosage and Administration (2.5 in Full Prescribing Information).

Pregnancy Category C. There are no adequate and well-controlled studies in pregnant women. Apportunite though the used during pregnancy only if the potential terrefit outwidings the potential terrefit outwiding the potential terrefit outwidings. c effects in rate and rations

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

Nursing Mothers - Ampiroznie was excreted in milk of rats during lactation, it is not known whether ampiroznie or its metabolities are excreted in rik. It is recommended that women receiving arbigrazole should not breast feed

Pediatric Use - Safety and effectiveness in pediatric patients with Major Depressive Disorder or signation associated with Schusphrena or Bipolar Manie have not been established.

Safely and effectiveness in presons parients with Schungmenta were established in a 6-week, placebo-curtoried clinica that in 202 pedianic parients appl 13 in 17 years (see indicators and clause. Dissaye and Administrator (21), in Full Prescribing Information, Asherse Alactions, and Cricical Studies (14 17 in Full Prescribing Information). Athough maintenance efficacy in pediatric patients has not been systematically evaluated, maintenance efficacy can be exhapituated from auch data along with companions of temperature pharmocolistic parameters in adult and

Settles and effectiveness in pediatric patients with Blooker Maria were established in a 4-week, placeton-portioned chincal trium 197 pediatric patients appel 10 to 17 years (see indicatines and flasge. Design and doministrator (2.5 in File Prescribing information, Adverse Reactions and College States) (4.7 in File Prescribing information, Adverse Reactions and College States) (4.7 in File Prescribing Information). Among the manifestance efficiency in pediatric patients has not been explanated evaluation manifestance efficiency can be entraporated from about data along with comparisons of ampricative promotive parameters in about and pediatric patients.

The efficacy of adjunctive ABLEY with concomitant lithium or valproate in the treatment of manic or mixed episodes in pediatric patients has not been systematically evaluated. However, such efficies and lack of pharmacolizatic observations between appearance and disture, vializations and activities and appearance and disture vializations of appointments of appointments are soluted data, along with comparisons of appointments and appearance and dehydro-around solve in pediatric policies 100 to 17 years of age were similar to traver in adults whe correcting for the erences in body weights

Genatine Use - in formal single-dose pharmacoknetic studies with anipprazole given in a single-dose of 15 mg, unipprazole situatince was 25% lower in elderly (465 years) subjects compared to younger adult subjects 1/4 to 54 years. Also, the pharmacoknetics of anipprazole either multiple doses in eldorly patients appeared similar to that occorved in young, healthy subjects. No doseste adjustment is recommended for eitemly patients (see siso Boxed Warning and Warnings and Precaudional

Of the 13,543 patients treated with and anapproprie in clinical trials, 1973 (8%) were ±65 years old and 1994 (9%) were ±75 years old. The majority (81%) of the 1973 patients were diagnosed with Semental of the Almeiner's type.

Poods controlled states of and an paramism in Scharaphrenia or Bipolar Maria 6d not include sufficient numbers of subjects aged 65 and over to discrimine whether they respond offerently from younger subjects.

Of the 749 palents branet with unprocesse injection or clinical mais, 99 (13%) were 265 years old and 78 (10%) were 2/5 years old. Pacedo

transied studies of aroprasse ejection in patients with aptation associated with Schoolthena or Bipolar Mania and not include sufficient of subjects aged 65 and over to determine whether they respond offerently from younger subjects.

Renal Impairment - In patients with severe tend impairment creationse clearance <00 millionini. C<sub>mill</sub> of arippractive (given in a single pase of 15 mg) and dehydro-arippractive increased by 30% and 50% respectively, but AUC was 15% lower for anjuvicative and THE higher for dehydro-arippractive or less than 15% of the dawn No respectively in required. as subjects with result improment

Hepatic Imparment - in a large-dose study (15 mg of anopractie) in subjects with varying degrees of liver particles (Child Pugh Cosses A, B, and C), the AUC of anopracile, 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.

Gender + Comp and AUC of aroperative and its active methodoller deligible-departative, are XFHs to 4FHs higher in women from in men, and consequentlys, the apparent unal decreace of aroperative in sover in women. These differences, however, are largely explained by differences in bridly weight (25% between men and women. No disage adjustment is recommended based on gender. Gender + C.

Race - Attrough no specific pharmacokindo: study was conducted to invisitigate the effects of race on the disposition of arippractie, population pharmacokinetic evaluation revealed no evidence of dinicially significant race-related differences in the pharmacokinetics of arippractie. No disage adjustment is recommended based on race.

Smoking - Based on studies orizong human liver engines in vitro, aripprazione is not a substate for Chintikal and also does not undergo direct gloudinations. Smoking should, Therefore, not have an effect on the prasmackination of an apprazione. Consistent with these in vitro results opposition pharmacokinatio evaluation of of not reveal any significant pharmacokinatio differences between smokers and conomoleus. No dosage adjustment is incommended based on proving status.

DRUG ABUSE AND DEPENDENCE: ABILIFY is not a controlled substance

Abuse and Dependence - Anopraztie has not been systematically studied in humans for its potential for abuse, tolerance, or physical dependence While the cancer thats did not reveal any tendency for any drug-seewing behavior, it is not possible to predict on the basis of the limited expension the extent to which a DNS-active drug will be misused, diverted, and/or abused once marketed. Patients should be excitated carefully for a history of drug abuse and diseally observed for larger of ASLEY mesuse or abuse.

OVERDOSAGE. To case of deliberate or accelerate internatingly with unit originate along or in combination with other subscinces were reported worklowed (44 cases with known instrume. 33 recovered without sequebal ento for recovered with sequebal emptions and feeling abnormal; Antitionally, 10 of these cases were in children age; 12 and youngen involving onal propriative ingestion uses 100 mg of onal amportance (so three majoritum incommended day) dose in a patient with fully recovered. Common reported in at least 5% of all overdose cases) were vornting, somnolence, and tremor. For more information on symptoms of

overdose, see Full Prescribing Information.

Management of Overdosage. No specific information is available on the theatment of overdose with intorpractic. An electrocardingon should be interruptions of Overcosage, his popular controlled a shadler on the freedom at operation will improve the incommission of a shadler of the freedom and operation and incommission of the observed management of the date of the observed management of the date of the date of the observed management observed management observed management observed management observed management of the observed management observed management observed management of the observed management observed management observed management of the observed management observed management of the observed management observed observed management observe

PATIENT COUNSELING INFORMATION: Information for Patients: Physicians are advised to discuss the following issues with patients for whom they prescribe ABILIPT: [See Medication Guide (17.7) in Full Prescribing Information]
Increased Mortality in Elderly Patients with Dementia-Related Psychosis - Advise patients and surregives of increased role of death

see Warnings and Pr brother

Chinical Worsening of Depression and Sociole Risk - Aest territes and conspires of palents to monitor for the enveryence of agration, instability, unusual durages in behavior, successfully, and other apoptions as described in Warrings and Privacions and to report such symptoms intreducing.

Advise polivetic and their families and caregivers to lead the Medication Guide and asset them in understanding its contents (see Warrings and

Interference with Cognitive and Motor Performance - Because arpprazole may have the potential to impair sudgment, t pations should be captivied about operating hazardous machinery, including automobies, until they are reasonably certain that anopyrable the app does not affect them adversely (see Warnings and Precautions). Programby - Patients should be advised to notify their physician if they become pregnant or intend to become pregnant during therapy with ABILHY

see Use in Specific Populational

Alursing - Patients should be advised not to breast-feed an infant if they are taking ASILITY (see Use in Specific Populations)

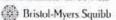
Concombant Medication - Potents should be advised to inform their physicians if they are taking, or plan to take, any prescription or over-the-counter drugs, since there is a potential for interactions [see Drug Indirections].

Alcohol - Patients should be advised to avoid alcohol while taking ABILFY (see Drug Interactional)

Heat Exposure and Dehydration - Patients should be advived regarding appropriate care in avaiding overheating and dehydration [see Warnings Sugar Contains - Patients should be adviced that each mit of 78 LIFY Oral Solution contains 400 mg of sucrose and 200 mg of fruction.

PheniActorunics - Therylatione is a component of aspartane. Each ARLEP DSCMELT Grafty Dearlegating Tablet continue the following arrows: 10 mg - 1.12 mg denylatione and 15 mg - 1.68 mg plenylatione.

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

### INDICATIONS

ABILIFY® (aripiprazole) is indicated for:

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

### IMPORTANT SAFETY INFORMATION

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,

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

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

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

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

Study Descriptions

Adolescent Schizophrenia:

Data from a randomized 6-week double-blind, placebo-controlled, multicenter trial assessing the efficacy and safety of two fixed doses of ABILIFY (10 mg/day or 30 mg/day) compared to placebo in adolescent outpatients (13 to 17 years) with schizophrenia (N=302).

Pediatric Bipolar I Disorder

Data from a randomized 4-week double-blind, placebo-controlled, multicenter trial assessing the efficacy and safety of two fixed doses of ABILIFY (10 mg/day or 30 mg/day) compared to placebo in pediatric outpatients (10 to 17 years) with Bipolar I Disorder (N=296).

Please see BRIEF SUMMARY OF PRESCRIBING INFORMATION, including Boxed WARNINGS, for ABILIFY on the adjacent pages.

### References

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



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The Institute of Living/Hartford Hospital is pleased to announce that nominations are now being accepted for the 2009 C. Charles Burlingame Award. This award, honoring an outstanding leader in psychiatric

education, research or administration, is made in the memory of Dr. Burlingame, psychiatrist-in-chief from 1931 to 1950.

We invite you to nominate a person who has significantly advanced the field of psychiatry. The nomination must include a current curriculum vitae and two letters of support describing the candidate's achievements.

The winner of the Burlingame Award will be notified by February 15, 2009, and invited to present an original paper as the focal point of the award day events. The award, which will be presented at The Institute in the fall of 2009, includes a commemorative certificate and a \$2500 honorarium plus expenses.

The Institute of Living is a comprehensive behavioral health system for the evaluation and treatment of psychiatric and addiction disorders. We offer a full continuum of services to patients and remain committed to the highest standards of clinical care, research and education.

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Nominations should be sent no later than January 15, 2009 to: Harold I. Schwartz, M.D. Psychiatrist-in-Chief and Vice-President, Behavioral Health The Institute of Living/Hartford Hospital 200 Retreat Avenue Hartford, CT 06106

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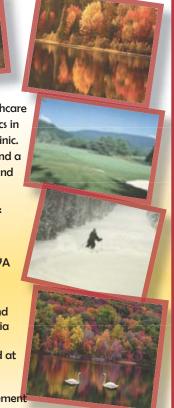
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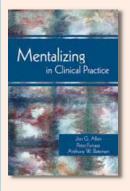
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### **WARNING: Suicidality and Antidepressant Drugs**

WARNING: Suicidality and Antidepressant Drugs

Antidepressants increased the risk compared to placebo of suicidal thinking and behavior (suicidality) in children, adolescents, and young adults in short-term studies of Major Depressive Disorder (MDD) and other psychiatric disorders. Anyone considering the use of Pristig or any other antidepressant in a child, adolescent, or young adult must balance this risk with the clinical need. Short-term studies did not show an increase in the risk of suicidality with antidepressants compared to placebo in adults 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 communications (6.1), Use in Specific Populations (8.4), and Patient Counseling Information (17.1 in the full prescribing information).

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

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

WARNINGS AND PRECAUTIONS: Clinical Worsening and Suicide Risk-Patients with major depressive disorder (MDD), both adult and pediatric, may experience worsening of their depression and/or the emergence of suicidal ideation and behavior (suicidality) or unusual changes in behavior, whether or not they are taking antidepressant medications, and this risk may persist until significant remission occurs. Suicide is a known risk of depression and certain other psychiatric disorders, and these disorders themselves are the strongest predictors of suicide. There has been a long-standing concern, however, that antidepressants may have a role in inducing worsening of depression and the emergence of suicidality in certain patients during the early phases of treatment. Pooled analyses of short-term placebo-controlled studies of antidepressant drugs (SSBIs 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 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 295 short-term studies (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 strate 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 of the full prescribing information. No suicides occurred in any of the pediatric studies. There were suicides in the adult studies, but the number was not sufficient to reach any conclusion about drug effect on suicide. It is unknown whether the suicidality risk extends to longer-term use, i.e., beyond severa effect on suicide. It is unknown whether the suicidality risk extends to longer-term use, i.e., beyond several months. However, there is substantial evidence from placebo-controlled maintenance studies 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 (psychomotro 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 heep established there is concern that such depression and/or the emergence of suicidal impulses has not been established, there is concern that such depression and/or the emergence or suicidal impluses has not been established, there is concern that sup-symptoms may represent precursors to emerging suicidality. Consideration should be given to changing the therapeutic regimen, including possibly discontinuing the medication, in patients whose depression is persistently worse, or who are experiencing emergent suicidality or symptoms that might be precursors to worsening depression or suicidality, especially if these symptoms are severe, abrupt in onset, or were not part of the patient's presenting symptoms. If the decision has been made to discontinue treatment, medication should be tapered, as rapidly as is feasible, but with recognition that abrupt discontinuation can be associated with certain symptoms [see Warnings and Precautions (5.9) and Dosage and Administration (2.3) in the fire reservition information for a description of the ricks of discontinuation of Persich Esmillies and cargiviers of 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 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 Pristiq should be written for the smallest quantity of tablets consistent with good patient management, in order to reduce the risk of overdose. <u>Screening patients for bipolar disorder</u>. A major depressive episode may be the initial presentation of bipolar 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 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 Pristiq is not approved for use in treating bipolar depression. Serotonin Syndrome-The development of a potentially life-threatening serotonin syndrome may occur with Pristiq treatment, particularly with concomitant use of other serotonergic drugs (including SSRIs, SNRIs and triptans) and with drugs that impair metabolism of serotonin (including MAOIs). The concomitant use of Pristig and MAOIs is contraindicated [see Contraindications (4.2)]. If concomitant treatment with Pristig and an SSRI, another SNRI or a 5-hydroxytryptamine receptor agonist (triptan) is clinically warranted, careful observation of the patient is advised, particularly during treatment initiation and dose increases. The concomitant use of Pristiq with serotonin precursors (such as tryptophan supplements) is not recommended. **Elevated Blood Pressure-** Patients receiving Pristiq should have regular monitoring 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 Pristiq. Sustained hypertension- Sustained blood pressure increases could have adverse consequences. For patients who experience a sustained increase in blood pressure while receiving Pristiq, either dose reduction or discontinuation should be considered (see Adverse Reactions (6.1). Treatment with Pristiq in controlled studies was associated with sustained hypertension, defined as treatment-emergent supine diastolic blood pressure (SDBP) ≥ 90 mm Hg and ≥ 10 mm Hg above baseline for 3 consecutive on-therapy visits. In clinical studies, regarding the proportion of patients with sustained hypertension, the following rates were observed; placebo (0.5%), Pristig 50 mg (1.3%), Pristig 100 mg (0.7%), Pristig 200 mg (1.1%), and Pristiq 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 anticoagulation state and dot this risk. Bleeding events related to SSRIs and SNRIs have ranged from ecchymosis, hematoma, epistaxis, and petechiae to life-threatening hemorrhages. Patients should be cautioned about the risk of bleeding associated with the concomitant use of Pristiq and NSAIDs, aspirin, or other drugs that affect coagulation or bleeding. Narrow-angle Glaucoma-Mydriasis has been reported in association with Pristig; coagulation or bleeding. Narrow-angle Glaucoma-Mydriasis has been reported in association

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 VMS (vasomotor symptoms) phase 2 and phase 3 studies, mania was reported for approximately 0.1% of patients treated with Pristig, Activation of mania/hypomania has also been reported in a small proportion of patients with major affective disorder who were treated with other marketed antidepressants. As with all antidepressants, Pristig should be used cautiously in patients with a history or family history of mania or hypomania. Cardiovascular/Gerebrovascular Disease-Caution is advised in administering Pristig to patients with cardiovascular/Gerebrovascular of lipid metabolism disorders [see Adverse Reactions (6.1]). Increases in blood pressure and heart rate were observed in clinical studies with Pristig, Pristig has not been evaluated systematically in patients with a recent history of myocardial infarction, unstable heart disease, uncontrolled hypertension, or cerebrovascular disease. Patients with these diagnoses, except for cerebrovascular disease, were excluded from clinical studies. Serum Cholesterol and Triglyceride Elevation-Dose-related elevations in fasting serum total cholesterol, LDL (low density lipoprotein) cholesterol, and triglycerides were observed in the controlled studies. Measurement of serum lipids should be considered during treatment with Pristig patients and the prospectively evaluated in patients treated with Pristig during clinical studies in Major Depressive Disorder. Abrupt discontinuation or dose reduction has been associated with the appearance of new symptoms that include dizzliness, nausea, headache, irritability, insomnia, diarrhea, anxiety, fatigue, abnormal dreams, and hyperhidrosis. In general, discontinuation events occurred more frequently with longer duration of therapy. During marketing of SMRIs (Serotonin and Norepinephrine Reuptake Indivisor), and seizures. While these events a

should be considered.

ADVERSE REACTIONS: Clinical Studies Experience: The most commonly observed adverse reactions in Pristiq-treated MDD patients in short-term fixed-dose studies (incidence >5% and at least twice the rate of placebo in the 50- or 100-mg dose groups) were nausea, dizziness, insomnia, hyperhidrosis, constipation, somnolence, decreased appetite, anxiety, and specific male sexual function disorders. Adverse reactions reported as reasons for discontinuation of treatment. The most common adverse reactions leading to discontinuation in at least 2% of the Pristiq-treated patients in the short-term studies, up to 8 weeks, were nausea (4%), dizziness, headache and vomiting (2% each); in the long-term study, up to 9 months, the most common was womiting (2%). Common adverse reactions in placeboe-controlled MDD studies: Table 3 in full P shows the incidence of common adverse reactions that occurred in ≥2% of Pristiq-treated MDD patients at any dose in the 8-week, placebo-controlled, fixed-dose, premarketing clinical studies. In general, the adverse reactions were most frequent in the first week of treatment. Cardiac disorders: Palpitations, Tachycardia, Blood pressure increaset: Gastroinetistal disorders. Nausea, Dry mouth, Diarrhea, Constipation, Vomitting; General disorders and administration site conditions; Fatigue, Chills, Feeling ittery, Astheniz, Metabolism and nutrition disorders: Decreased appetite, weight, decreased; Heaving, disorders: Disorders: Dizorders: Sommolence, Headache, Tremor, Paraesthesia, Disturbance in attention; Psychiatric Disorders: Insamina, Anxiety, Nervousness, Iritability, Ahnormal dreams: Benal and urinary disorders: Unitary heatisticin; Respiratory, thoracic, and mediastinal disorders: Yawning; Skin and subcutaneous fissue disorders: Hyperhidrosis, Rash; Special Spress; Wishon burned; Mydradiss, Tinnitus, Dysgousia, Yasacular Disorders: Hyperhidrosis, Rash; Special Spress; Wishon burned; Mydradiss, Tinnitus, Dysgousia, Yasacular Disorders: Hyperhidrosis, Rash; Special Spre

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 specific projection of the proposition of the propo

OVERDOSAGE: human Experience with Overdosage- There is limited clinical experience with desvenlafaxine succinate overdosage in humans. In premarketing clinical studies, no cases of fatal acute overdose of desvenlafaxine were reported. The adverse reactions reported within 5 days of an overdose > 600 mg that were possibly related to Pristig included headache, vomiting, agitation, dizziness, nausea, constipation, diarrhea, dry mouth, paresthesia, and tachycardia. Desvenlafaxine (Pristig) is the major active metabolite of venlafaxine, overdose experience, overdose with venlafaxine (the parent drug of Pristig) is presented below; the identical information can be found in the *Overdosage* section of the venlafaxine package insert. In postmarketing experience, overdose with venlafaxine (the parent drug of Pristig) has occurred predominantly in combination with alcohol and/or other drugs. The most commonly reported events in overdosage include tachycardia, changes in level of consciousness (ranging from somnolence to coma), mydriasis, seizures, and vomiting. Electrocardiogram changes (e.g., prolongation of QT interval, bundle branch block, QRS prolongation), sinus and ventricular tachycardia, bradycardia, hypotension, rhabdomyolysis, vertigo, liver necrosis, serotonin syndrome, and death have been reported. Published retrospective studies report that venlafaxine overdosage may be associated with an increased risk of fatal outcomes compared to that observed with SSRI antidepressant products, but lower than that for tricyclic antidepressants. Epidemiological studies have shown that venlafaxine-treated patients have a higher pre-existing burden of suicide risk factors than SSRI-treated patients. The extent to which the finding of an increased risk of fatal outcomes can be attributed to the toxicity of venlafaxine in overdosage, as opposed to some characteristic(s) of venlafaxine retreated patients, is not clear. Prescriptions for Pristig should be written for the smallest quantity of capsules consistent with good patient

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



For major depressive disorder in adults

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

- The major active metabolite of Effexor XR® (venlafaxine HCI)¹
- One simple 50-mg dose, no need to titrate
  - Dosage adjustment is necessary in patients with severe renal impairment or end-stage renal disease and is recommended when discontinuing therapy
- Discontinuation rate due to adverse events was comparable to placebo in clinical studies at 50 mg¹



### IMPORTANT TREATMENT CONSIDERATIONS

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

### WARNING: SUICIDALITY AND ANTIDEPRESSANT DRUGS

Antidepressants increased the risk compared to placebo of suicidal thinking and behavior (suicidality) in children, adolescents, and young adults in short-term studies of Major Depressive Disorder (MDD) and other psychiatric disorders. Anyone considering the use of PRISTIQ or any other antidepressant in a child, adolescent, or young adult must balance this risk with the clinical need. Short-term studies did not show an increase in the risk of suicidality with antidepressants compared to placebo in adults beyond age 24; there was a reduction in risk with antidepressants compared to placebo in adults aged 65 and older. Depression and certain other psychiatric disorders are themselves associated with increases in the risk of suicide. Patients of all ages who are started on antidepressant therapy should be monitored appropriately and observed closely for clinical worsening, suicidality, or unusual changes in behavior. Families and caregivers should be advised of the need for close observation and communication with the prescriber. PRISTIQ is not approved for use in pediatric patients.

### Contraindications

- PRISTIQ is contraindicated in patients with a known hypersensitivity to PRISTIQ or venlafaxine.
- PRISTIQ must not be used concomitantly with an MAOI or within 14 days of stopping an MAOI. Allow 7 days after stopping PRISTIQ before starting 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 PRISTIQ, particularly with concomitant use of serotonergic drugs, including triptans, and with drugs that impair the metabolism of serotonin (including MAOIs). If concomitant use is clinically warranted, careful observation of the patient is advised, particularly during treatment initiation and dose increases. Concomitant use of PRISTIQ with serotonin precursors is not recommended.
- Patients receiving PRISTIQ should have regular monitoring of blood pressure since sustained increases in blood pressure were observed in clinical studies. Preexisting 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.

- SSRIs and SNRIs, including PRISTIQ, may increase the risk of bleeding events. Concomitant use of aspirin, NSAIDs, warfarin, and other anticoagulants may add to this risk.
- Mydriasis has been reported in association with PRISTIQ; therefore, patients with raised intraocular pressure or those at risk of acute narrow-angle glaucoma (angleclosure glaucoma) should be monitored.
- PRISTIQ 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,
- 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
- 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%).

**Reference: 1.** Pristiq<sup>™</sup> (desvenlafaxine) Prescribing Information, Wyeth Pharmaceuticals Inc.

Please see brief summary of Prescribing Information on adjacent pages.

Effexor XR® is a registered trademark of Wyeth Pharmaceuticals Inc.





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