

BRIEF SUMMARY of Prescribing Information—Before prescribing, please consult complete Prescribing Information.

Increased Mortality in Elderly Patients with Dementia-Related Psychosis: Elderly patients with dementia-related psychosis treated with atypical antipsychotic drugs are at an increased risk of death compared to placebo. Analysis of seven placebo-controlled trials (median duration of 10 weeks) in these patients revealed a risk of death in the drug-treated patients (between 1.0 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 2.5% in the placebo group. Although the mortality risk in these patients is increased, the benefits of atypical antipsychotic drugs (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.

INDICATIONS AND USAGE: Bipolar Mania: SEROQUEL is indicated for the treatment of acute manic episodes associated with bipolar I disorder, as either monotherapy or adjunctive therapy with lithium or divalproex. The efficacy of SEROQUEL in acute bipolar mania was established in two 12-week monotherapy trials and one 3-week adjunctive therapy trial of bipolar patients. SEROQUEL is not approved for the treatment of bipolar depression. Efficacy was not established in clinical trials for more than 12 weeks in monotherapy. SEROQUEL is not approved for the treatment of bipolar depression. The physician who elects to use SEROQUEL for extended periods should periodically re-evaluate the long-term risks and benefits of the drug for the individual patient. **Schizophrenia:** SEROQUEL is indicated for the treatment of schizophrenia. The efficacy of SEROQUEL in schizophrenia was established in short-term (6-week) controlled trials of schizophrenic inpatients. The effectiveness of SEROQUEL in long-term use, that is, for more than 6 weeks, has not been systematically evaluated. 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.

CONTRAINDICATIONS: SEROQUEL is contraindicated in individuals with a known hypersensitivity to this medication or any of its ingredients.

WARNINGS: **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) is not approved for the treatment of patients with dementia-related psychosis (see Boxed Warning). **Neuroleptic Malignant Syndrome (NMS):** A case of 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 hyperreflexia, muscle rigidity, altered mental status, and evidence of autonomic instability (irregular pulse or blood pressure, tachycardia, diaphoresis, and cardiac dysrhythmias). Additional signs may include elevated creatine phosphokinase, myoglobinuria (rhabdomyolysis) and acute renal failure. The diagnostic evaluation of patients with the syndrome is complicated. In arriving at a diagnosis, it is important to rule out other causes where the clinical presentation includes both serious medical illness (eg, 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 concomitant therapy; 2) intensive symptomatic treatment and medical monitoring; and 3) treatment of any complication. **Seizures:** SEROQUEL is contraindicated in patients with a seizure disorder. **Agitation:** Agitation associated with specific pharmacological treatment regimens for NMS. If a patient receives antipsychotic drug treatment after recovery from NMS, the potential reinduction of drug therapy should be carefully considered. The patient should be carefully monitored since recurrences of NMS have been reported. **Tardive Dyskinesia:** A syndrome of potentially irreversible, involuntary, dysrhythmic 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 say whether patients are at greater risk of tardive dyskinesia than younger patients or whether 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 symptoms are persistent, they may be partially suppressed. 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 is known to respond to antipsychotic drugs, and for whom alternative treatments are not available. 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.

Diabetes Mellitus: Hyperglycemia, in some cases extreme and associated with ketonacidosis or hyperosmolar coma, has been reported in patients treated with SEROQUEL. The relationship between hyperglycemia and the administration of antipsychotic drug is unclear. 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 antipsychotic drug use and hyperglycemia-related adverse events is not completely understood. However, epidemiological studies suggest an increased risk of treatment-emergent hyperglycemia-related adverse events in patients treated with atypical antipsychotic drugs. In patients with hyperglycemia-related adverse events, patients treated with atypical antipsychotic drugs are not advised. Patients with an established diagnosis of diabetes mellitus should be started on atypical antipsychotic drugs to 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 antipsychotic drugs should undergo fasting blood glucose testing at the beginning of treatment and periodically during treatment. Any patient treated with SEROQUEL should be monitored for symptoms of hyperglycemia including polydipsia, polyuria, and weight gain. Patients with hyperglycemia-related adverse events in patients treated with atypical antipsychotic drugs should undergo fasting blood glucose testing at the beginning of treatment and periodically during treatment. Some patients may require treatment with antidiabetic medication despite discontinuation of the suspect drug.

Orthostatic Hypotension: SEROQUEL may induce orthostatic hypotension associated with dizziness, tachycardia and, in some patients, syncope, especially during the initial dose-escalation period, probably reflecting its α_1 -adrenergic antagonist properties. The risk of orthostatic hypotension is increased in patients treated with SEROQUEL compared with placebo (0.9%) and placebo (0.4%) (2/27) (2/27). 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. Hypotension occurs during titration to the target dose, a return to the previous dose in the titration schedule is appropriate. **Cardiac:** Tachycardia was observed in association with SEROQUEL treatment in chronic drug studies (see Animal Toxicology). 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 SEROQUEL treatment. Significant weight gain was observed in association with SEROQUEL treatment. SEROQUEL compared to 0.2% (1/60) on placebo and 0.7% (4/57) active control drugs. As with other antipsychotic drugs, 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 2% at the higher end of the therapeutic dose range and was maximal in the first two to four weeks of treatment and remained stable throughout the course of chronic therapy. Generally, these changes were of no clinical significance and TSH was unchanged in most patients, and levels of T₄ were unchanged. In nearly all cases, cessation of SEROQUEL treatment was associated with a reversal of the effects on total and free T₄, respectively, of the duration of treatment. About 0.4% (1/27) of SEROQUEL patients did experience TSH increases in monotherapy studies. Six of the patients with TSH increases needed replacement thyroid treatment. In the monotherapy studies, SEROQUEL was added to lithium or divalproex (12% / 24/196 of SEROQUEL treated patients compared to 7% / 15/1093 of placebo treated patients) elevated TSH levels. Of the SEROQUEL treated patients with elevated TSH levels, 3.8% (2/52) were free T₄ levels. **Cholesterol and Triglyceride Elevations:** In schizophrenia trials, SEROQUEL treated patients had increases from baseline in cholesterol and triglycerides of 11% and 17%, respectively, compared to slight decreases for placebo patients. These changes were only weakly related to the increases in weight observed in SEROQUEL treated patients. **Hyperproliferative:** Although an elevation of prolactin levels was not demonstrated in clinical trials with SEROQUEL, increased prolactin levels were observed in all studies with the compound. There was no association with an increase in mammary gland neoplasia in rats (see Carcinogenesis). 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 proinfective agents, the clinical significance of elevated serum prolactin levels is unknown for most patients. Neither clinical studies nor epidemiological studies have shown an association between elevated prolactin levels and the development of breast cancer or other breast neoplasms 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 placebo-controlled trials were approximately 6% for SEROQUEL compared to 1% for placebo. In acute bipolar mania trials, the proportions of patients with transaminase elevations of 3 times the upper limits of the normal reference range in a pool of 3- to 12-week placebo-controlled trials were approximately 1% for both SEROQUEL and placebo. These hepatic enzyme elevations usually occurred within the first 3 weeks of drug treatment and promptly returned to pre-treatment levels with ongoing treatment with SEROQUEL. **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-escalation. In schizophrenia trials, somnolence was reported in 18% of patients treated with SEROQUEL compared to 11% in placebo patients. SEROQUEL may impair judgment, motor skills, and reaction time. Caution should be exercised when driving or operating machinery. When a causal relationship to the drug cannot be established, the physician should advise the patient of the possibility of impaired judgment and motor skills, and it is possible that SEROQUEL may also affect a patient's ability to perform 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 their performance. In cases of impairment in a patient receiving SEROQUEL, the physician should be advised to discontinue the drug. When a causal relationship to the drug cannot be established, the physician should advise the patient of the possibility of impaired judgment and motor skills, and it is possible that SEROQUEL may also affect a patient's ability to perform activities requiring mental alertness. 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, eg, 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 with caution in patients with a history of 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. **Use in Patients with Concomitant Illness:** Clinical experience with SEROQUEL in patients with certain concomitant systemic illnesses is limited. SEROQUEL has not been evaluated or used to any appreciable extent in patients with a recent history of myocardial infarction or unstable angina. Patients with these conditions should be monitored closely during clinical studies. Because of the risk of orthostatic hypotension with SEROQUEL, caution should be exercised in cardiac patients (see Orthostatic Hypotension). **Information for Patients:** Physicians are advised to discuss the following issues with patients for whom they prescribe SEROQUEL. **Orthostatic Hypotension:** Patients should be advised of the risk of orthostatic hypotension, especially during the 3-5 day period of initial dose titration, and also at times of re-initiating treatment or increases in dose. **Interference with Cognitive and Motor Performance:** Since somnolence was a commonly reported adverse event associated with SEROQUEL treatment, patients should be advised of the risk of somnolence, especially during the 3-5 day 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 hazardous machinery, until they are reasonably certain that SEROQUEL therapy does not affect them adversely. **Pregnancy:** Patients should be advised to notify their physician if they become pregnant or intend to become pregnant during drug therapy. **Nursing:** Patients should be advised not to breast feed if they are taking SEROQUEL. **Concomitant Medication:** As with other medications, patients should be advised to notify their physician if they are taking other medications. **Alcohol:** Patients should be advised to avoid consuming alcoholic beverages while taking SEROQUEL. **Heat Exposure and Dehydration:** Patients should be advised regarding appropriate care in avoiding overheating and dehydration. **Laboratory Tests:** No specific laboratory tests are recommended. **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 effects of alcohol, benzodiazepines, barbiturates, and other CNS depressants. **Anticholinergic Agents:** Anticholinergic agents should be used with caution with 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:** Pharmacokinetics of quetiapine (250 mg bid) and phenytoin (100 mg bid) 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, other hepatic enzyme inducers (eg, carbamazepine, barbiturates, rifampin, glucocorticoids), calcium channel blockers (eg, verapamil, diltiazem, nifedipine), and diuretics (eg, furosemide, thiazides). **Disulfiram:** Coadministration of quetiapine (150 mg bid) and disulfiram (500 mg bid) increased the maximum plasma concentration of quetiapine at steady-state by 17% without affecting the extent of absorption or mean oral clearance. **Thiazolidinediones:** Thiazolidinediones (200 mg bid) increased the oral clearance of quetiapine (300 mg bid) by 65%. **Cimetidine:** Administration of multiple daily doses of cimetidine (400 mg bid for 4 days) resulted in a 20% decrease in the mean oral clearance of quetiapine (150 mg bid). Dose adjustment for quetiapine is not required when it is given with cimetidine. **P450 Inhibitors:** Coadministration of quetiapine (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. Clearance is indicated when SEROQUEL is administered with ketoconazole and other inhibitors of cytochrome P450 3A (eg, itraconazole, fluconazole, and erythromycin). **Fluoxetine, Imipramine, Haloperidol, and Risperidone:** Coadministration of fluoxetine (60 mg once daily), imipramine (75 mg bid), haloperidol (7.5 mg bid), or risperidone (3 mg bid) with quetiapine (300 mg bid) did not alter the steady-state pharmacokinetics of quetiapine. **Effect of Other Drugs on Quetiapine:** The mean oral clearance of risperidone (2 mg once daily) was reduced by 20% in the presence of quetiapine (300 mg bid). **Disulfiram:** Coadministration of disulfiram (500 mg bid) and quetiapine (150 mg bid) increased the maximum plasma concentration of quetiapine at steady-state by 17% without affecting the extent of absorption or mean oral clearance. **Thiazolidinediones:** Thiazolidinediones (200 mg bid) increased the oral clearance of quetiapine (300 mg bid) by 65%. **Cimetidine:** Administration of multiple daily doses of cimetidine (400 mg bid for 4 days) resulted in a 20% decrease in the mean oral clearance of quetiapine (150 mg bid). 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I never thought I could be myself again Now I can

#1

Now the most prescribed atypical*

Proven efficacy

To help patients achieve continued success^{†1-4}

Trusted tolerability

To help patients stay on treatment¹⁻⁵

SEROQUEL is indicated for the treatment of acute manic episodes associated with bipolar I disorder, as either monotherapy or adjunct therapy with lithium or divalproex, and the treatment of schizophrenia. Patients should be periodically reassessed to determine the need for continued treatment.

Elderly patients with dementia-related psychosis treated with atypical antipsychotics 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.

Prescribing should be consistent with the need to minimize the risk of tardive dyskinesia. A rare condition referred to as neuroleptic malignant syndrome has been reported with this class of medications, including SEROQUEL.

Hyperglycemia, in some cases extreme and associated with ketoacidosis, hyperosmolar coma, or death, has been reported in patients treated with atypical antipsychotics, including SEROQUEL. 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 during treatment. Patients who develop symptoms of hyperglycemia should also undergo fasting blood glucose testing.

Precautions include the risk of seizures, orthostatic hypotension, and cataract development.

The most commonly observed adverse events associated with the use of SEROQUEL in clinical trials were somnolence, dry mouth, dizziness, constipation, asthenia, abdominal pain, postural hypotension, pharyngitis, SGPT increase, dyspepsia, and weight gain.

* All atypical prescriptions: Total prescriptions. Jan. 05-Feb. 06. New prescriptions. Sept. 04-Feb. 06. IMS Health. National Prescription Audit.

[†] Significant improvement in all 11 YMRS items was measured at Day 21 and continued through Day 84 in monotherapy mania trials.

Please see Brief Summary of Prescribing Information on adjacent page.

 **Seroquel**[®]
quetiapine fumarate
25 mg, 50 mg, 100 mg, 200 mg, 300 mg & 400 mg tablets

Redefine Success

AstraZeneca 
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