New Treatment Options Can Help Smokers Quit

BY DAMIAN MCNAMARA Miami Bureau

any new and effective treatment strategies are available that clinicians can employ to help patients quit tobacco use, according to an updated Clinical Practice Guideline released recently by the U.S. Public Health Service. Use of multiple interventions, individual

and group counseling, integration of effective therapies into routine health care delivery, and insurance reimbursement increase the likelihood a patient with tobacco dependence can quit, according to the guideline.

Expanding tobacco dependence literature and new treatments available since 1999 led a consortium of eight federal agencies and nonprofit organizations to update the guideline for the first time since 2000. The new recognition of tobacco dependence as a chronic disease that generally requires ongoing assessment and repeated intervention is central to the update.

A 24-member panel screened more than 8,700 publications on tobacco dependence and treatment published since 1975 in preparation for the update. A total of 81 outside peer experts reviewed the panel's findings.

The universal aim of the 276-page Treating Tobacco Use and Dependence: 2008 Update" is assist clinicians in strongly recommending effective tobacco dependence counseling and medications to patients who use tobacco. This includes consideration of seven first-line medications now approved by the Food and Drug Administration that "reliably increase long-term smoking abstinence rates." Those medications are bupropion SR, nicotine gum, nicotine inhaler, nicotine lozenge, nicotine nasal spray, nicotine patch, and varenicline (Chantix).

It is important to encourage use of effective medications alone or in combina-

SEROQUEL (quetiapine fumarate) TABLETS

BRIEF SUMMARY: For full Prescribing Information, see package insert

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 compare to placebo. Analyses of seventeen placebo-controlled trials (modal duration of 10 weeks) in these patients revealed a risk of death i the drug-treated patients of between 1.6 to 1.7 times that seen in placebo-treated natients. Over the course of a twical 10 wee the ungreated patients of deween 1.0 of 1.7 miles that seen in proceeding patients. Over the course of applicat to were 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) o infectious (eg, pneumonia) in nature. SEROQUEL (quetiapine) is not approved for the treatment of patients with Dementia-Relate Psychosis

idality and Antidepressant Drugs

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 SEROUEL 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. Relates to all alges who are started on antidepressant therapy should be monitored appropriately and observed closely for clinical worsening, suicidality, or unusual changes in behavior. Families and carejvers should be advised of the need for close observation and communication with the prescriber. SEROUEL is not approved for use in andicitic nations. (Sau Wornjoer, Clinical Worsening, and Clinical Worsening, suicidality, or unusual changes in behavior. Families iatric patients. (See Warnings: Clinical Worsening and Suicide Risk, Precautions: Information for Patients, an Precautions: Pediatric Use)

INDICATIONS AND USAGE Bipolar Disorder SEROQUEL is indicated for the treatment of both: • depressive episodes associ ated with bipolar disorder; • acute manic episodes associated with bipolar I disorder as either monotherapy or adjunct therapy to lithium or divalprox. Depression The efficacy of SEN00UEL was established in two identical 8-week randomized, placebo-controlled double-bilnd clinical studies that included either bipolar I or II platients (see **LINGLE) PHARMACLOUS** in full Prescribing I formation). Effectiveness has not been systematically evaluated in clinical trials for more than 8 weeks. Mania The efficacy of SER00UEL 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). Effectiveness has not been systematically evaluated in clinical trials for more than 12 weeks in monotherapy and 3 weeks in adjunct therapy. The physician who elects to use SEROQUEL for extended periods in bipola disorder should periodically re-evaluate the long-term risks and benefits of the drug for the individual patient (see DOSAGE AND ADMINISTRA TION). 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). 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).

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

WARNINGS Increased Mortality in Elderly Patients with Dementia-Related Psychosis Elderly patients with dementia-related psychosis treated with abpical antipsychotic drugs are at an increased risk of death compared to placebo. SERDUUEL (quetiapine) 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 suicidal. There has been a long-standing concern, however, that anti-depressants may have a role in inducing worsening of depression and the emergence of suicidally in certain patients during the early phases of treatment. Pooled analyses of short-term placebo-controlled trials of antidepressant drugs (SSRIs and others) showed that these drugs increase the risk of suicidal thinking and behavior (suicidality) in children, adolescents, and young adults (ages 18-24) with major depressive disorder (MDD) and other psychiatric disorders. Short-term studies did not show an increase in the risk of suicidal thinking and behavior (suicidality in children, adolescents, and young adults (ages 16-24) with major depressive disorder (MDD) and other psychiatric disorders include a value of 9 antidepressant crugs in over 4400 patients. The pooled analyses of placebo-controlled trials in adults with MDD or other psychiatric disorders include a value 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 young

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

No suicides occurred in any of the pediatric trials. There were suicides in the adult trials, but the number was not sufficient to reach any conclusion about drug effect on suicide. It is unknown whether the suicidality risk extends to longer-term use, i.e., beyond several months. However, there is substantial evidence from placebo-controlled maintenance trials in adults with depression that the use of antidepressants can delay the recurrence of depression. All patients being treated with antidepressants for any indication should be monitored appropriately and observed closely for clinical worsening, suicidality, and unusual changes in behavior, especially during the initial few months of a course of drug therapy, or at times of dose changes, either increases or decreases. The following symptoms, anxiety, agitation, panic attacks insomnia, irritability, hostility, agoressiveness, impulsivity, akathisia (osychomotor 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 non-psychiatric. Although a causal link between the emergence of such symptoms and either the worsening of depression and/or the emergen 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** souceany, especially in use symptoms are server, and in order, or were into part or the patient's presenting symptoms remners an caregivers of patients being treated with antidepressants for major depressive discover or other indications, both psychiatric and nonpsy chiatric, should be alerted about the need to monitor patients for the emergence of agitation, irritability, unusual changes in behavior, an chartic, should be alerted about the need to monitor patients for the emergence of agritation, intrability, 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 SEROUEL 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 (hough not established in controlled trials) that treating such an episode with a maintegenessant 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, adnets with depressive symptoms should be adequately screened to determing it they are at risk for binder disorder our patients obsult dended a dailed expendite binewr include a feasible bipolar of available bipolar disorder. 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. Neuroleptic Molignant Syndrome (NMS) A potentially itali symptom complex sometimes referred to as Neuroleptic Molignant 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 dyshrythmia). Additional signs may include elevated creatine phospho-kmase, myoglobinuria (rhabdormybysis) 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 liness (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

SERQUEL® (quetapine fumarate) Tablets management of NMS should inclué: 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 WMS. If a patient requires anti-treatments are available. There is no general agreement about specific pharmacological treatment regimes for MMS. If a patient requires anti-psychotic 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 MMS have been reported. **Tercive Dyskinesic** A syndrome of potentially inversible, involun-tary, 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 torely upon prevalence estimates to predict, at the inception of antipsychotic treatment, which patients are likely to develop the syndrome. Whether antipsychotic drugs administered to the patient increase. However, the syndrome can develop, atthough much less commonly, after relatively brief treatment periods at low doess. There is no known treatment for established cases of tarkive dyskinesia, although the syndrome may remit, partially or completely, if antipsychotic treatment is withdrawn. Antipsychotic treatment, itself, however, equally effective, but potentially tess harmful treatments are not available or appropriate. In patients who do require chronic treatment, the smallest does and the shortest duration of treatment with SERQUEL despite the presence of the syndrome. **Hyperglycemia** And Diabetes **Mellitus**. Hyperglycemia, in some cases actreement and associated with kteactions is not presention or ortinuet estament should be creassessed periodically. If signs and symptoms of tarkive dyskinesia appaer in a patient on SERQUEL for whom alternative, equally e management of NMS should include: 1) immediate discontinuation of antipsychotic drugs and other drugs not essential to concurrent therapy

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PRECAUTIONS General: 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 α₄-adrenergic antagonis tachycardia and, in some patients, syncope, especially during the initial dose-titration period, probably reflecting its cr₂-adrenergic antagonist properties. Syncope was reported in 1% (28/3265) of the patients treated with SEROULEL, compared with 0.2% (2954) on placebo and about 0.4% (2527) on active control drugs. SEROULEL should be used with particular caution in patients with known cardiovascular 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 hypo-tension and syncope may be minimized by limiting the initial dose to 25 mg bid (ese **DOSAEF AND ADMINISTRATION**). If hypotension occurs during titration to the target dose, a return to the previous dose in the titration schedule is appropriate. Ledopenia, **Neutropenia and Agranulocytosis**. In clinical trial and postmarketing experience, events of leukopenia/neutropenia have been reported. Prossible 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 (GBC) monitored frequently during the first tew months of therapy and should discontinue SEROULEL at the first sign of a decline in WBC in absence of other causative factors. Patients with neutropenia abould be carefully monitored for fever or ther symptoms or signs of infection association with weitpine treatment, but a causal relationship to SEROULEL and have their WBC followed until recovery (see ADVERSE REACTIONS). *Claracts*: The development of calaracts was observed in association with uput patients with a history of seizures or with conditions that potentially lower the seizure threshold, e. Abheimer's dementia. Conditons that hover the seizure threshold may be more prevalent in a population of 5% years or 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 concer. Although disturbances such as galactorrhea, amenorrhea, gynecomastia, and impotence have been reported with protactin-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 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 % 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 heaptic enzyme elevations usually occurred within the first 3 weeks of drug treatment and prompty 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 were approximately 1% for both SEROQUEL and for **Cognitive and Motor Impairment:** Sonnolence was a commonly reported adverse event reported in platents treated with SEROQUEL compared to 11% of placebo patients. In acute bipolar mania trials using SEROQUEL and 2% for placebo. **Potential for Cognitive and Motor Impairment:** Sonnolence was reported in 18% of placebo quere was reported in 18% of placebo. Displacebo. Reports on SEROQUEL compared to 11% 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 triak, somnolence was reported in 16% of patients on SEROQUEL compared to 9% of placebo patients. In bipolar depression triak, somnolence was reported in 16% of patients on SEROQUEL compared to 9% of placebo patients. In bipolar depression triak, somnolence was reported in 16% of patients on SEROQUEL com reported in 16% of patients on SERVOUEL compared to % of placeto patients. In lactic uplot in name table still SERVOUEL as anyotic therapy, somnolence was reported in 34% of patients on SERVOUEL compared to 7% of placebo patients. In lipoid patients, no isport of patients on SERVOUEL compared to 7% of placebo patients. In these trials, sedation was reported in 30% of patients on SERVOUEL compared to 7% of placebo patients. In these trials, sedation was reported in 30% of placebo patients on SERVOUEL compared to 7% of placebo patients. The sedation was reported in 30% of placebo patients since SERVOUEL to the sedation was reported in 30% of placebo patients. Since SERVOUEL has not potential to impair judgment, thinking, or motor solite, patients should be cautioned about performing activities requiring mental alertness, such as operating a motor vehicle (including automobiles) or operating hazdrous machinery until they are reasonably certain that SERVOUEL therapy does not affect them adversely. Priapism: One case of prippism in a patient receiving SERVOUEL has not been reported prior to market introduction. While a causal relationship to use of SERVOUEL has not been reported prior to market introduction. In a platent receiving SERVOUCE has been reported prior to make introduction, while a causa relationship to use of SERVOUCE has not been established, other drugs with alphat adrenergic blocking effects have been reported to indue priorism, and it is possible that SERVOULE, may share this capacity. Severe priapism may require surgical intervention. **Body Temperature Regulation:** Although not reported with SERVOULE, disruption of the body's ability to reduce core body temperature has been attributed to antipsychotic agents. Appropriate care is advised when prescribing SERVOULE, for patients who will be experiencing conditions which may contribute to an elevation in core body temperature, e.g., exercising strenuously, exposure textreme 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

tion for all patients attempting to quit smoking, except when medically contraindicated, according to the guideline. Also, evidence is insufficient for effectiveness in specific populations, including pregnant women, smokeless tobacco users, light smokers, and adolescents.

However, it is not enough for clinicians to recommend these medications. Health systems, insurers, and purchasers need to increase availability and facilitate use of these therapies to help physicians help their patients. "Making tobacco dependence treatment a covered benefit of insurance plans increases the likelihood that a tobacco user will receive treatment and quit successfully," the authors wrote.

Increased evidence that counseling, alone and especially with medication, greatly increases a person's chances of quitting tobacco is recognized. There is a new consensus that counseling efforts can be effective in adolescent tobacco users, for example. Also, quitlines such as 1-800-QUIT-NOW are an effective intervention that can reach a large number of the 70% of 45 million smokers in the United States who indicate a desire to quit, according to the guideline.

Individual and group counseling also are deemed effective, particularly with increasing treatment intensity. Practical counseling (problem-solving/skills training) and social support delivered as part of treatment were found especially effective. Use these interventions when counseling patients making a quit attempt, the authors suggested.

Clinical interventions both for patients who are willing or unwilling to make a quit attempt at the time are outlined. Interventions for individuals with psychiatric disorders, including substance use disorders, are also recommended.

The guideline was sponsored by the Agency for Healthcare Research and Quality: the Centers for Disease Control and Prevention; the National Cancer Institute; the National Heart, Lung, and Blood Institute; the National Institute on Drug Abuse; the American Legacy Foundation; the Robert Wood Johnson Foundation; and the University of Wisconsin School of Medicine and Public Health's Center for Tobacco Research and Intervention.

Of the 24 panel members, 21 had no significant financial interests. The three other panel members were recused from panel deliberations relating to their areas of conflict.

The Clinical Practice Guideline and related documents are available at www.surgeongeneral.gov/tobacco.

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ServoureL® (quetiapine fumarate) Tablets 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 SEROOUEL 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 placeho, (SEROOUEL iao) mg, 6736, 1.7%; SEROOUEL 600 mg, 9/348, 2.6%; Placebo, 7/347, 2.0%). Use in Patients with Concomitant Illness: Clinical experience with SEROOUEL in patients with certain concomitant systemic illnesses (see Renal Impairment and Hepatic Impairment under CLINICAL PHARMACOLOGY, Special Populations in full Prescribing Information jis limited. SEROOUEL has not been evaluated or used to any appreciable extent in patients with a recent history of myocardial infarction or unstable heard fisaase. Patients with been evaluated from premarketing clinical studies. Because of the risk of orthostatic hypotension with SEROOUEL, caution should be observed in cardiac patients (see Othostatic Hypotension). Withdreword I Acute withdrawal syntpmrs, such as nausea, womiting, and insomnia have very rarely been described after abrupt cessation of atpipial antipsychotic drugs, including SEROOUEL. Gradual withdrawal is advised. Information for **Patients** Prescribers or other health professionals should inform patients, their families, and their caregivers about the benefits and risks associated with treatment with SEROUUEL and should course I them in its appropriate use. A patient Medication Guide about "Antidepressant Medicines, Depression and other Serious Mental Illness, and beir caregivers to read the Medication Guide and should and subul distrut patients, their families, and their caregive 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. **Orthostatic Hypotension**. Patients should be advised of the risk of orthostatic hypotension, especially during the 3-6 day period of initial does titration, and also at times of re-initiating treatment or increases in does. **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 not to breast feed if they are taking SEROQUEL. **Concomitant Medication:** As with other medications, patients should be advised not to breast feed if they are taking SEROQUEL. **Concomitant Medication:** As with other medications, patients should be advised not to breast feed if they are taking SEROQUEL. their physicians if they are taking, or plan to take, any prescription or over-the-counter drugs. 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. 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. Laboratory Tests 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 **PRECAUTIONS: Leukopenia, neutropenia and agranulocytosis.) 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 should be used when it is taken in commandon with other centrally acting orligs. SchOuber, potentiated the cognine and motor energies actional in a clinical trail in subjects with selected psycholic disorders, and achoolic 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 antag-onize the effects of levodopa and dopamine agoinsis. **The Effect of Other Drugs on Quetiopine Pheriptim**: Coadministration of quetapine (250 m tijd) and pheription (100 m tijd) increased the mean oral clearance of quetapine ty 57 fold. Increased doeses of SEROQUEL may be required to maintain control of symptoms of schizophrenia in patients receiving quetapine and pherytoin, 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 (soon good not access the international mean experiment of geolegical accession and the second of geolegical accession of of geolegical acces The relation of the detaines. International (200 mg ob), interested the originative of quetapine (300 mg do) by orse, Telemethaniae (300 mg do) by orse, Tel (150 mg tid). Dosage adjustm

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SEROULL[®] (quetapine tumarate) labels 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 fung-related effects were observed at doses of 1, 10, and 20 mg/kg or 0.01, 0.12, and 0.24 times the maximum human dose on a mg/m² basis. However, in a preliminary peri/postnatal study, there were increases in tetal and pup death, and decreases in mean litter weight at 150 mg/kg, or 3.0 times the maximum human dose on a mg/m² basis. There are no adequate and well-controlled studies in pregnant women and quetapine should be used during pregnancy only if the potential benefit justifies the potential risks to the fetus. Labor and Delivery: The effect of SENOULE lo nabor and delivery in humans is unknown. Murring Muthers: SENOULEL was excreted in milk of treated animals during lactation. It is not known if SEROULEL is excreted in human milk. It is recommended that women receiving SEROULEL should not breast feed. Pediatric Use: The safety and effectiveness of SEROULEI milk. It is recommended that women receiving SEROULEL should not breast feed. Pediatric Use: The safety and effectiveness of SEROULEI milk. It is recommended that women receiving SEROULEL should in the use of SEROULEL 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 SEROULEL, 7% (232) were 65 years of age or over. In general, there was no indication of any different toler-ability of SEROULE in a child to careful monitoring during the initial dosing period in the elderly. The mean plasma clearance of SEROULEL was reduced by 30% to 50% in elderly patients when compared to younger patients (see **Pharmacokinetics** under **CLINICAL PHARMACOLORY** in full Prescribing Information and **DOSAGE AND ADMINISTRATION**). **ADVERSE REACTIONS**

ADVERSE REACTIONS

The information below is derived from a clinical trial database for SEROQUEL consisting of over 3700 patients. This database includes 698 The immatum users is entreen non-a climital that database in 0 schools consisting of over 3rdo patents. This equations in the addatase includes point patients exposed to SERROULE In the treatment of bipolar depression. 405 patients exposed to SERROULE. For the treatment of adults bipolar mania (montherapy and adjunct therapy) and approximately 2600 patients and/or normal subjects exposed to 1 or more doese of SERROULE. for the treatment of schizophrenia. Of these approximately 3700 subjects, approximately 3400 (2300 in schizophrenia, 405 in acute bipolar mania, and 698 in bipolar depression) were patients who participated in multiple does effectiveness trials, and their experience corresponded to approx-imately 992.6 patient-years. The conditions and duration of treatment with SEROULEL varied greatly and included (in overlapping categories) open-tabel 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 ophythalmologic examinations. Adverse vents 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 events without first grouping similar types of events into a smaller number of standardized event categories. In the tables and tabulations that follow, standard COSTART terminology has been used to classify reported adverse events for schizophrenia and bioplar mania. MedDRA terminology has been used to classify reported adverse events for bipplar depression. The stated frequencies of adverse upport mana. weuch's terminology has been used to cassify reported averse venits for opport oppression. The state integration is a verse venits grant the proportion of individuals who experiment at least once, a treatment memory even of the type listed. An event was considered treatment emergent averse event of the type listed. An event was considered treatment emergent averse event of the type listed. An event was considered treatment emergent averse event of the type listed. An event was considered treatment emergent averse event of the type listed. An event was considered treatment emergent in Short-Term, Controlled Trials Adverse Events Associated with Discontinuations of Treatment in Short-Term, Placebo-Controlled Trials Bipplar Disorder: Depression: Overall, discontinuations due to adverse events were 12.9% for SEROUEL 90.00 ys 19.0% for SEROUEL 60.00 gand 5.2% for placebo. Mania: Overall, discontinuations due to adverse events were 5.7% for SEROUEL 95.1% for placebo in monoterapy and 3.6% for SEROUEL 95.9% for placebo in adjunct therapy. Schizophrenia: Overall, there was little difference in the incidence of discontinuation due to adverse events (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 PRECAUTIONS)



Hypotension 0.4% 0%
Adverse Events Occurring at an Incidence of 1% or More Among SEROQUEL Treated Patients in Short-Term, Placebo-Controlled Triats: 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 triats. 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 treatmentemergent adverse events that occurred during acute therapy of schizophrenia (up to 6 weeks) and bipolator maia (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.

0% 0%

SEROQUEL

0.8% 0.4%

Table 2. Treatment-Emergent Adverse Experience Incidence in 3- to 12-Week Placebo-Controlled Clinical Trials

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

Events 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, ocuph increased, depression, diarrhae, extrapyramidal syndrome, hostility, hypertension, hypertensio, hypotension, increased appetite, infection, insomia, leukopenia, malaise, nause, nervousness, parsthesiae, peripheral edema, swarding runero, raid weight loss.

In these studies, the most commonly observed adverse events 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%), SGP1 increased (5%), weight gain (5%), and dyspepsia (5%). Table 3 enumerates the incidence, rounded to the nearest percent, of treatment-emergent adverse events 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 greated than the incidence in placebo-treated patients.

Table 3. Treatment-Emergent Adverse Experience Incidence in 3-Week Placebo-Controlled Clinical Trial

for the Treatment of Bipolar Mania (Adjunct Therapy)								
Body System/ Preferred Term	SEROQUEL (n=196)	PLACEBO (n=203)	Body System/ Preferred Term	SEROQUEL (n=196)	PLACEBO (n=203)			
Body as a Whole			Metabolic and Nutritional					
Headache	17%	13%	Weight Gain	6%	3%			
Asthenia	10%	4%	Nervous					
Abdominal Pain	7%	3%	Somnolence	34%	9%			
Back Pain	5%	3%	Dizziness	9%	6%			
Cardiovascular			Tremor	8%	7%			
Postural Hypotension	7%	2%	Agitation	6%	4%			
Diaestive			Respiratory					
Dry Mouth	19%	3%	Pharyngitis	6%	3%			
Constipation	10%	5%	1					

Events for which the SER00UEL incidence was equal to or less than placebo are not listed in the table, but included the following: akathisia, diarrhea, insomnia, and nausea.