Tramadol Appears to Stem Abuse of Opiates

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CORONADO, CALIF. — Tramadol may be effective primary medical treatment for opiate dependence, results from a small study demonstrate.

"I think it's safe to try for somebody who hasn't succeeded on Suboxone for some reason or for someone who can't afford Suboxone," Dr. Thomas E. Radecki said in an interview during a poster session at the

annual meeting of the American Academy of Addiction Psychiatry. "However, there is a great need at this point for randomized, controlled research to compare (tramadol) to Suboxone and drug-free treatments."

In an open trial, 69 patients aged 18-50 years with a DSM-IV diagnosis of opiate dependence were initially administered 150 mg tramadol four times a day for the first 2-3 days of detoxification, and then encouraged to reduce the dosage to no more than 100 mg four times a day.

Office visits initially were once a week for two visits, then every 2 weeks until stable, and then every 3-4 weeks. Patients had random urine toxicology screens, said Dr. Radecki, a psychiatrist in Clarion, Pa.

Of the 69 patients, 65 (94%) kept at least one follow-up appointment and the median time of therapy to date is 21 weeks.

Enough clinical data were available to evaluate tramadol's effectiveness in 59 patients. Of these, 68% were still in treatment and opiate free. "This compares favorably

to Suboxone," he said. Three patients experienced seizures because of taking higher than recommended doses of tramadol.

Dr. Radecki pointed out that tramadol is somewhat less addictive than Suboxone.

He estimated that tramadol costs each patient \$16 per month; Suboxone costs each patient \$300 per month. In his practice, that translates into a savings of more than \$174,000 per year.

Dr. Radecki had no relevant financial relationships to disclose.

SEROQUEL® (quetiapine fumarate) Tablets
BRIEF SUMMARY of Prescribing Information (continued)—Before prescribing, please consult complete Prescribing Information.

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 son to 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 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. Suicides 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 (Net-1048) the incidence of treatment emergent suicidal ideation or suicide attempt was low and similar to placebo, (SEROQUEL as) ome, 6/350, 1.7%, SEROQUEL, 600 mg 9/348, 2.6%; Placebo, 7/347, 2.0%). Use in Patients with Concentiant Ulmess: Clinical sexperience with SEROQUEL, and should ocu 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, 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 SEROOUEL treatment, patients should be advised of the risk of somnolence, especially during the 3-5 day period of initial dose titration. Patients should be advised to heart of initial dose titration. Patients should be advised to notify their physician if they become pregnant or intend to become pregnant during therapy. Nursing: Patients should be advised to notify their physician if they become pregnant or intend to become pregnant during therapy. Nursing: Patients should be advised not to breast feed if they are taking SEROOUEL. Landomitant Medication: As with other medications, patients should be advised not to breast feed if they are taking SEROOUEL. The prescription or over-the-counter drugs. Alcohol: Patients should be advised to avoid consuming alcoholic beverages while taking SEROUEL. Heat Exposure and Dehydration: 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 SEROULL 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 SEROULL Laboratory Tests. Patients with a pre-existing low WBC or a history of drug induced leukopenia/neutropenia should have of lorazepam (2 mg, single dose) was reduced by 20% in the presence of queliapine 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 (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 queliapine (150 mg bid). The changes were not significant. Lithium: Concomitant administration of queltaipine (250 mg bid) was increased by 11% in the presence of queliapine (150 mg bid). The changes were not significant. Lithium: Concomitant administration of queltaipine (250 mg bid) was used to refer 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 queltaipine to subjects with selected psychotic disorders had no clinically relevant effect on the clearance of antipyrine or urinary recovery of antipyrine metabolities. These results indicate that quetapine does not significantly induce hepatic enzymes responsible for cytochrome P450 mediated metabolism of antipyrine. Carcinogenesis, Mutagenesis, Impairment of Fertility: Carcinogenesis: Carcinogenicity studies were conducted in C5781. mice and Vistar rats. Queltaipine was administered in the diet to mice at doses of 20, 75, 250, and 250 mg/kg and to rats by gavage at doses of 25, 75, and 250 mg/kg or no mg/m² basis (mice) or 0.3, 0.9, and 3.0 times the maximum human dose on a mg/m² basis (rats). There were statistically significant increases in thyroid gland follicular adenomas in male mice at doses of 250 mg/kg or 30 times the maximum human dose on a mg/m² basis (maximum human dose on a mg/m² basis

produce a reproducible increase in mutations in one *Salmonella typhimurium* tester strain in the presence of metabolic activation. No evidence of clastogenic potential was obtained in an *in vitro* chromosomal aberration assay in cultured human lymphocytes or in the *in vivo* micronucleus assay in rats. Impairment of Fertility: Quetapine decreased mating and eftertility in male Sprague-Dawley rats at oral doses of 50 and 150 mg/kg or 0.6 and 1.8 times the maximum human dose on a mg/m² basis. Drug related effects included increases in interval to mate and in the number of matings required for successful impregnation. These effects continued to be observed at 150 mg/kg even after a two-week period without treatment. The no-effect dose for impaired mating and fertility in male rats was 25 mg/kg, or 0.3 times the maximum human dose on a mg/m² basis. Drug-related effects included decreases in matings and in matings resulting in pregnancy, and an increase in the interval to mate. An increase in matings and in matings resulting in pregnancy, and an increase in the interval to mate. An increase in matings and in matings resulting in pregnancy, and an increase in the interval to mate. An increase in matings and in matings resulting in pregnancy, and an increase in the interval to mate. An increase in the interval to mate. An increase in the interval to mate. An increase in matings and in matings resulting in pregnancy and an increase in the interval to mate. An increase in matings and in matings resulting in pregnancy and an increase in the interval to mate. An increase in the interval to mate 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 0.01 times the maximum human dose on a mg/m² basis. The ne-effect dose in termal termal to an interval to material and put detected in rats at doses of 25 to 200 mg/kg or 0.01 mg/k

elderly patients when compared to younger patients (see **DOSAGE AND ADMINISTRATION**). **ADVERSE REACTIONS:** The information below is derived from a clinical trial database for SEROQUEL consisting of over 3700 patients. This database includes 698 patients exposed to SEROQUEL for the treatment of bipolar depression, 405 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) and approximately 2600 patients and/or normal subjects exposed to 1 or more doses of SEROQUEL 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 dose effectiveness trials, and their experience corresponded to approximately 992 6 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-ditration studies, and short-term or longer-term exposure. Adverse reactions were assessed by collecting adverse events that one of the proportion of the patients of physical examinations, vital signs, weights, laboratory analyses, EGGs, and results of ophthalmologic examinations. Adverse events 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 event categories. In the tables and tabulations that follow, standard COSTART terminology has been used to classify preported adverse events for schizophrenia and bipolar mania. MedDRA terminology has been used to classify preported adverse events for schizophrenia and bipolar mania. MedDRA terminology has been used to classify preported adverse events for bipolar depression. The stated frequencies of adverse events represent the proportion of individuals who experienced, at least once, a treatment-emergent adverse event of the type listed. An event was considered treatment emergent if it occurred for the first time or worsened while receiving therapy following baseline evaluation. Adverse Findings Observed in Short-Term, Controlled Trials: Adverse Events Associated with Discontinuation Adverse event Short-Term, Placebo-Controlled Trials: Bipolar Disorder: Depression: Overall, discontinuations due to adverse events were 5.7% for SEROQUEL so. 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 events (4% for SEROQUEL vs. 50 for placebo) in a pool of controlled trials. However, discontinuation due to somnolence and hypotension were considered to be drug related (see PRECAUTIONS):

RROQUEL

SEROQUEL

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Hypotension 0.4% 0.9% 0.9%
Adverse Events 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 events 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 placebo-frested natients.

incidence in patients treated with SEROQUEL was greater than the incidence in placebo-treated patients.

Table 2: Treatment-Emergent Adverse Experience Incidence in 3- to 12-Week Placebo-Controlled Clinical Trials¹ 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%
Constination	8%	3%	Skin and Appendages		
Vomiting	6%	5%	Rash	4%	2%
Dyspepsia	5%	1%	Special Senses		
Gastroenteritis	2%	0%	Amblyopia	2%	1%
Gamma Glutamyl					
Transpentidase Increased	1%	Nº/ ₄			

Transpeptioase increased 1% 0%

The vents for which the SEROQUEL incidence was equal to or less than placebo are not listed in the table, but included the following: accidental injury, akathisia, chest pain, cough increased, depression, diarrhea, extrapyramidal syndrome, hostility, hypertension, hypertonia, hypotension, increased appetite, infection, insomnia, leukopenia, malaise, nausea, nervousness, paresthesia, peripheral edema, sweating, tremor, and weight loss. In these studies, the most commonly observed adverse 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%), SGPT increased (5%), weight gain (5%), and dyspepsia (5%). Table 3 enumerates 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 greater than the incidence in placebo-treated patients.