CNS SPECTRUMS®

The International Journal of Neuropsychiatric Medicine

Genetic Factors in Neuromuscular Pain

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Current Trends in Neuropathic Pain Treatments

M. Offenbaecher and M. Ackenheil

Understanding Neuropathic Pain

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Neurocognitive Function in Schizophrenia at a 10-year Follow-up: A Preliminary Investigation

M.M. Kurtz, J.C. Seltzer, J.L. Ferrand, and B.E. Wexler

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H.S. Bracha, T.C. Ralston, A.E. Williams, J.M. Yamashita, and A.S. Bracha

Antidepressant Treatment of Psychotic Depression: Potential Role of the σ Receptor

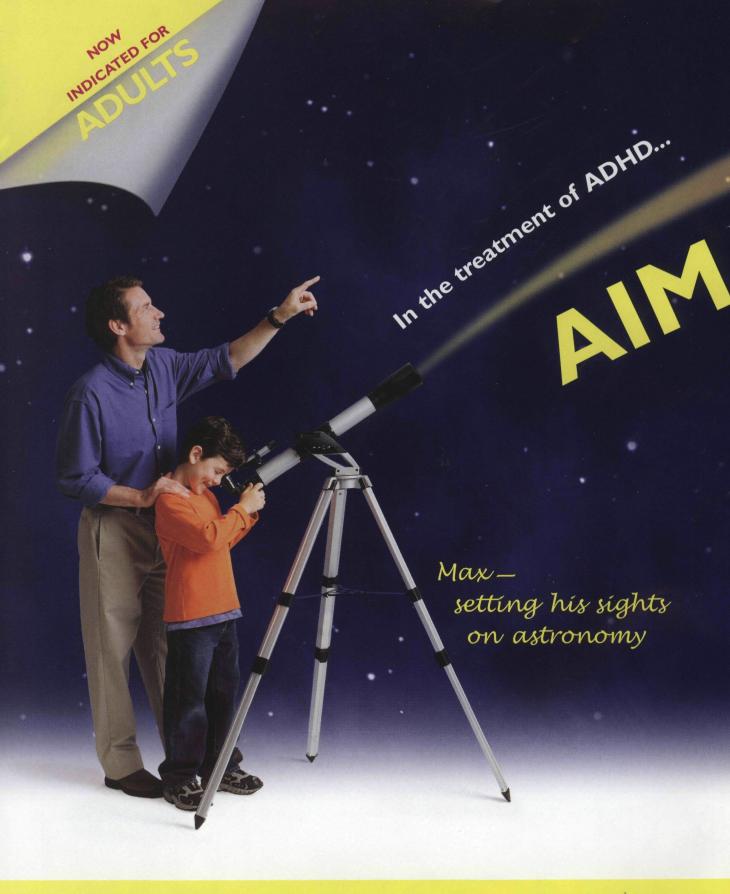
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NEW CLINICAL COLUMN:

Pearls in Clinical Neuroscience:
Betting on Dopamine

D.J. Stein and J.E. Grant





The most common adverse events in pediatric trials included loss of appetite, insomnia, abdominal pain, and emotional lability. The most common adverse events in the adult trial included dry mouth, loss of appetite, insomnia, headache, and weight loss.

The effectiveness of ADDERALL XR for long-term use has not been systematically evaluated in controlled trials. As with other psychostimulants indicated for ADHD, there is a potential for exacerbating motor and phonic tics and Tourette's syndrome. A side effect seen with the amphetamine class is psychosis. Caution also should be exercised in patients with a history of psychosis.



With efficacy that goes beyond adequate symptom control—to help them reach new heights

- Reduces symptoms to a level comparable to that of non-ADHD children¹
- Effectively addresses the core impairments of ADHD—inattention, hyperactivity, and impulsivity²
- Once-daily dosing provides day-long improvement in academic productivity and social functioning^{3,4}

Please see references and brief summary of prescribing information on adjacent page.

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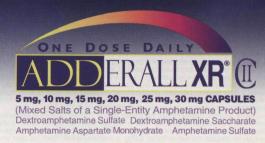
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October 2004

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Reach new heights

Abuse of amphetamines may lead to dependence. Misuse of amphetamines may cause sudden death and serious cardiovascular adverse events. ADDERALL XR generally should not be used in children or adults with structural cardiac abnormalities. ADDERALL XR is contraindicated in patients with symptomatic cardiovascular disease, moderate to severe hypertension, hyperthyroidism and glaucoma, known hypersensitivity to this class of compounds, agitated states, history of drug abuse, or current or recent use of MAO inhibitors. ADDERALL XR should be prescribed with close physician supervision.

References: 1. Ambrosini PJ, Lopez FA, Chandler MC, et al. Safety and efficacy of ADDERALL XR in pediatric ADHD: results of an open-label community assessment trial. Poster presented at: 14th Annual CHADD International Conference; October 17, 2002; Mlami Beach, Fla. 2. Spencer T, Biederman J, Wilens T, et al. Pharmacotherapy of attention-deflicit hyperactivity disorder across the life cycle. J Am Acad Child Adolesc Psychiatry. 1996;35:409-432. 3. Lopez FA, Ambrosini PJ. Chandler MC, et al. ADDERALL XR in pediatric ADHD: quality of life measures from an open-label community assessment trial. Poster presented at: 14th Annual CHADD International Conference; October 17, 2002; Mlami Beach, Fla. 4, Lopez FA. Chandler MC, Blederman J, et al. Long-term Adderall XR treatment improves quality of life in ADHD children. Poster presented at: 156th Annual Meeting of the American Psychiatric Association: May 21, 2003; San Francisco, Calif.

BRIEF SUMMARY: Consult the full prescribing information for complete product information.

ADDERALL XR® CAPSULES

Cli Rx Only

ONE DOSE DAILY

5 mg, 10 mg, 15 mg, 20 mg, 25 mg, 30 mg CAPSULES (Mixed Salts of a Single-Entity Amphetamine Product) Dextroamphetamine Sulfate Dextroamphetamine Saccharate Amphetamine Aspartate Monohydrate Amphetamine Sulfate

AMPHETAMINES HAVE A HIGH POTENTIAL FOR ABUSE. ADMINISTRATION OF AMPHETAMINES FOR PROLONGED PERIODS OF TIME MAY LEAD TO DRUG DEPENDENCE. PARTICULAR ATTENTION SHOULD BE PAID TO THE POSSIBILITY OF SUBJECTS OBTAINING AMPHETAMINES FOR NON-THERAPEUTIC USE OR DISTRIBUTION TO OTHERS AND THE DRUGS SHOULD BE PRESCRIBED OR DISPENSED SPARINGED.

MISUSE OF AMPHETAMINE MAY CAUSE SUDDEN DEATH AND SERIOUS CARDIOVASCULAR ADVERSE

INDICATIONS

ADDERALL XR® is indicated for the treatment of Attention Deficit Hyperactivity Disorder (ADHD).

The efficacy of ADDERALL XR® in the treatment of ADHD was established on the basis of two controlled trials in a

CONTRAINDICATIONS

Advanced arteriosclerosis, symptomatic cardiovascular disease, moderate to severe hypertension, hyperthyroidism, known hypersensitivity or idiosyncrasy to the sympathomimetic amines, glaucoma. Agitated states. Patients with a history of drug abuse. During or within 14 days following the administration of monoamine oxidase inhibitors (hypertensive crises may result).

WARNINGS

Psychosis: Clinical experience suggests that, in psychotic patients, administration of amphetamine may exacerbate symptoms of behavior disturbance and thought disorder. Long-Term Suppression of Growth: Data are inadequate to determine whether chron-

Long-left Suppression of Growth: Data are inadequate to determine whether chronic use of stimulants in children, including amphetamine, may be causally associated
with suppression of growth. Therefore, growth should be monitored during treatment,
and patients who are not growing or gaining weight as expected should have their treatment interrupted.

Sudden Death and Pre-existing Structural Cardiac Abnormalities: Sudden death has been reported in
association with amphetamine treatment at usual doses in children with structural cardiac abnormalities.

Adderall XF8 generally should not be used in children or adults with structural cardiac abnormalities.

PRECAUTIONS

General: The least amount of amphetamine feasible should be prescribed or dispensed at one time in order to

General: The least amount of amphetamine feasible should be prescribed or dispensed at one time in order to minimize the possibility of overdosage.

Hypertension: Caution is to be exercised in prescribing amphetamines for patients with even mild hypertension (see CONTRAINDICATIONS). Blood pressure and pulse should be monitored at appropriate intervals in patients taking ADDERALL XR®, especially patients with hypertension.

Tiss: Amphetamines have been reported to exacerbate motor and phonic tics and Tourette's syndrome. Therefore, clinical evaluation for tics and Tourette's syndrome in children and their families should precede use of stimulant predictations.

Ites: Amphetamines have been reported to exacerbate motor and phonic tics and Tourette's syndrome. Therefore, clinical evaluation for tics and Tourette's syndrome in children and their families should precede use of stimulant medications.

Information for Patients: Amphetamines may impair the ability of the patient to engage in potentially hazardous activities such as operating machinery or vehicles; the patient should therefore be cautioned accordingly.

Drug Interactions: Acidifying agents—Sactivontestinal acidifying agents—Guertone acidifying agents—These agents (ammonium chloride, sodium acid phosphate, etc.) increase the concentration of the incized species of the amphetamine molecule, thereby increasing urinary excretion. Both groups of agents lower blood levels and efficacy of amphetamines. Adrenergic blockers—Adrenergic blockers are inhibited by amphetamines. Advantage agents (seatopalamile, some hizaldes) increase the concentration of the non-ionized species of the amphetamine molecule, thereby decreasing urinary excretion. Both groups of agents increase blood levels and therefore potentiate the actions of amphetamines. Antiexpersaxins, tricyclic—Amphetamines or protriptyline and possibly other tricyclics cause striking and sustained increases in the concentration of 4 amphetamine or protriptyline and possibly other tricyclics cause striking and sustained increases in the concentration of 4 amphetamine or protriptyline and possibly other tricyclics cause striking and sustained increases in the concentration of 4 amphetamine in the brain, cardiovascular effects can be potentiated. MAO inhibitors—MAO antidepressants, as well as a metabolite of furazolidone, slow amphetamine metabolism. This slowing potentiates amphetamines, increasing their effect on the release of orreprisephrine and other mono

produce a synergistic anticonvulsant action. *Propoxyphene*—in cases of propoxyphene overdosage, amphetamine CNS simulation is potentiated and fatal convulsions can occur. *Veratrum aikaloids*—Amphetamines inhibit the hypotensive effect of veratrum alkaloids.

Drug/Laboratory Test Interactions: Amphetamines can cause a significant elevation in plasma corticosteroid levels. This increase is greatest in the evening. Amphetamines may interfere with urinary steroid determinations. Carcinogenesis/Mulagenesis and Impairment of Fertility: No evidence of carcinogenicity was found in studies in which d.j-amphetamine (enantiomer ratio of 1:1) was administered to mice and rats in the clief tor 2 years at doese of up to 30 mg/kg/day in male mice, 19 mg/kg/day in female mice, and 5 mg/kg/day in male and female rists. These doses are approximately 2.4, 1.5 and 0.6 times, respectively, the maximum recommended human dose of 30 mg/day (child) on a mg/m² body surface area basis.

Amphetamine, in the enantiomer ratio present in ADDERALL® (Immediate-release)(d- to I- ratio of 3:1), was not clastogenic in the mouse bone marrow micronucleus test *in vivo* and was negative when tested in the *E. coli* component of the Ames test *in vitro* ol-Amphetamine (1:1 enantiomer ratio) has been reported to produce a positive response in the mouse bone marrow micronucleus test, an equivocal response in the Ames test, and negative responses in the mouse bone marrow micronucleus test, an equivocal response in the Ames test, and negative responses in the mouse bone marrow micronucleus test, an equivocal response in the Ames test, and negative responses in the mouse bone marrow micronucleus test, an equivocal response in the Ames test, and negative responses in the mouse bone marrow micronucleus test, and reparation of the Ames test in vitro ol-test of test of the Ames test of the vitro sister chromatid exchange and chromosomal aberration assays.

Amphetamine, in the enantiomer ratio present in ADDERALL® (immediate-release) (d- to I- ratio of 3:1),

ADVERSE EVENTS

ADVENSE EVENTS

The premarkstening development program for ADDERALL XR® included exposures in a total of 965 participants in clinical trials (635 pediatric patients, 248 adult patients, 82 healthy adult subjects). Of these, 635 patients (ages to 12) were evaluated in two controlled clinical studies, one open-label clinical study, and two single-dose clinical pharmacology studies (N=40). Safety data on all patients are included in the discussion that follows. Adverse

oster presented at: 156th Annual Meeting of the American Psychiatric Association; May 21, 2003; San Francisco, Calif.
reactions were assessed by collecting adverse events, results of physical examinations, vital signs, weights, laboratory analyses, and ECGs.

Adverse events furting exposure were obtained primarily 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 listings that follow, COSTART terminology has been used to classify reported adverse events.

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.

Adverse events associated with discontinuation of treatment: In two placebo-controlled studies of up to 5 weeks duration among children with ADHD, 2.4% (10/425) of ADDERALL XR® treated patients discontinued due to adverse events (including 3 patients with loss of appetite, one of whom also reported insomnia) compared to 2.7% (7/259) receiving placebo. The most frequent adverse events associated with discontinuation of ADDERALL XR® in controlled and uncontrolled, multiple-dose clinical trials of pediatric patients (N=595) are presented below. Over half of these patients were exposed to ADDERALL XR® for 12 months or more.

Adverse event
Anorexia (loss of appetite)
Insomnia % of pediatric patients discontinuing (n=595)
2.9
1.5
1.2 Weight loss Emotional lability Depression 1.0 0.7

In one placebo-controlled 4-week study among adults with ADHD, patients who discontinued treatment due to adverse events among ADDERALL XR®-treated patients (N=191) were 3.1% (n=6) for nervousness including anxiety and irritability, 2.6% (n=5) for insomnia, 1% (n=2) each for habadache, palpitation, and somnolence; and, 0.5% (n=1) each for ALT increase, agitation, chest pain, cocaine craving, elevated blood pressure, and weight loss.

Adverse events occurring in a controlled trial: Adverse events reported in a 3-week clinical trial of pediatric patients and a 4-week clinical trial in adults treated with ADDERALL XR® or placebo are presented in the tables below.

presemble in the labels below.

The prescriber should be aware that these figures cannot be used to predict the incidence of adverse events in the course of usual medical practice where patient characteristics and other factors differ from those which 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 non-drug factors to the adverse event incidence rate in the population studied.

| | e Events Reported by More Than on Placebo in a 584 | Than 1% of Pediatric Patients Reco Patient Clinical Study | siving ADDERALL XR® with |
|-------------|---|--|--------------------------|
| Rody Sustam | Professed Term | ADDERALL YR® (n=374) | Placeho (n=210) |

| Body System | Preferred Term | ADDERALL XR® (n=374) | Płacebo (n=210) |
|-----------------------|------------------------------|----------------------|-----------------|
| General | Abdominal Pain (stomachache) | 14% | 10% |
| | Accidental Injury | 3% | 2% |
| | Asthenia (fatique) | 2% | 0% |
| | Fever | 5% | 2% |
| | Infection | 4% | 2% |
| | Viral Infection | 2% | 0% |
| Digestive | Loss of Appetite | 22% | 2% |
| System | Diarrhea | 2% | 1% |
| • | Dyspepsia | 2% | 1% |
| | Nausea | 5% | 3% |
| | Vomiting | 7% | 4% |
| Nervous System | Dizziness | 2% | 0% |
| • | Emotional Liability | 9% | 2% |
| | Insomnia | 17% | 2% |
| | Nervousness | 6% | 2% |
| Metabolic/Nutritional | Weight Loss | 4% | 0% |

Table 2 Adverse Events Reported by 5% or More of Adults Receiving ADDERALL XR® with Higher Incidence

| Body System | Preferred Term | ADDERALL XR® (n=191) | Placebo (n=64) |
|-----------------------|---|------------------------|-----------------------|
| General | Asthenia Headache | 6% 26% | 5% 13% |
| Digestive System | Loss of Appetite Diarrhea Dry Mouth Nausea | 33% 6% 35% 8% | 3% 0% 5% 3% |
| Nervous System | Agitation Anxiety Dizziness Insomnia | 8% 8% 7% 27% | 5% 5% 0% 13% |
| Cardiovascular System | Tachycardia | . 6% | 3% |
| Metabolic/Nutritional | Weight Loss | 11% | 0% |
| Urogenital System | Urinary Tract Infection | 5% | 0% |

Note: The following events did not meet the criterion for inclusion in Table 2 but were reported by 2% to 4% of adult patients receiving ADDERALL XR* with a higher incidence than patients receiving placebo in this study; infection, photosensitivity reaction, constituation, tooth disorder, emotional lability, libido decreased, somnolence, speech disorder, palpitation, winchighing, dyspense, asweating, dysmenorrhee, and impotence.

Included doses up to 60 mg.

The following adverse reactions have been associated with amphetamine use: Cardiovascular: Palpitations, The toilowing adverse feactions have been associated with ariphetathine use: Carolivascular: Palpitations tachycardia, levation of blood pressure, sudden death, myocardial infarction. There have been isolated reports of cardiomyopathy associated with chronic amphetamine use. Central Nervous System: Psychotic episodes at recommended doses, overstimulation, restlessness, dizziness, insormia, euphoria, dyskinesia, dysphoria, dyskinesia, dysphoria, tremor, headache, exacerbation of motor and phonic tics and Tourette's syndrome, seizures, stroke. Gastrointestinal: Dryness of the mouth, unpleasant taste, diarrhea, constipation, other gastrointestinal disturbances. Anorexia and weight loss may occur as undesirable effects. Allergic: Urticaria. Endocrine: Impotence, changes in libido.

DRUG ABUSE AND DEPENDENCE

DINUG ABUSE AND DEPENDENCE

ADDEPALL XR® is a Schedule II controlled substance.

Amphetamines have been extensively abused. Tolerance, extreme psychological dependence, and severe social disability have occurred. There are reports of patients who have increased the dosage to many times that recommended. Abrupt cessation following prolonged high dosage administration results in extreme fatigue and mental depression; changes are also noted on the sleep EEG. Manifestations of chronic intoxication with amphetamines may include severe dermatoses, marked insomnia, intribability, hyperactivity, and personality changes. The most severe manifestation of chronic intoxication is psychosis, often clinically indistinguishable from schizophrepia. from schizophrenia.

from schizophrenia.

OVERDOSAGE
Individual patient response to amphetamines varies widely. Toxic symptoms may occur idiosyncratically at low doses. Symptoms: Manifestations of acute overdosage with amphetamines include restlessness, tremor, hyperreflexia, rapid respiration, confusion, assaultiveness, hallucinations, panic states, hyperprexia and rhabdomyolysis. Fatigue and depression usually follow the central nervous system stimulation. Cardiovascular effects include rarrythmias, hypertension or hypotension and circulatory collapse. Gastrointestinal symptoms include nausea, vomiting, diarrhea, and abdominal cramps. Fatal poisoning is usually preceded by convulsions and coma. Treatment: Consult with a Certified Poison Control Center for up to date guidance and advice. Management of acute amphetamine intoxication is largely symptomatic and includes gastric lavage, administration of activated charcoal, administration of a cathartic and sedation. Experience with hemodialysis or peritoneal dialysis is inadequate to permit recommendation in this regard. Acidification of the urine increases amphetamine excretion, but is believed to increase risk of acute renal failure if myoglobinuria is present. If acute severe hypertension complicates amphetamine overdosage, administration of intravenous phentolamine has been suggested. However, a gradual drop in blood pressure will usually result when sufficient sedation has been achieved. Chlorpromazine antagonizes the central stimulant effects of amphetamines and can be used to treat amphetamine intoxication. The prolonged release of mixed amphetamine salts from ADDERALL XR® should be considered when treating patients with overdose. Dispense in a tight, light-resistant container as defined in the USP. Store at 25° C (77° F). Excursions permitted to 15-30° C (59-86° F) [see USP Controlled Room Temperature].

Manufactured for: Shire US Inc., Newport, KY 41071 Made in USA For more information call 1-800-828-2088, or visit www.adderalixr.com. ADDERALL® And ADDERALL XR® are registere

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EDITORIAL MISSION

CNS Spectrums' editorial mission is to address relevant neuropsychiatric topics, including the prevalence of comorbid diseases among patients, and original research and reports that emphasize the profound diagnostic and physiologic connections made within the neurologic and psychiatric fields. The journal's goal is to serve as a resource to psychiatrists and neurologists seeking to understand and treat disturbances of cognition, emotion, and behavior as a direct consequence of central nervous system disease, illness, or trauma.

When depression symptoms persist, why wait?

Start EFFEXOR XR **Sooner** rather than later

Proven high rates of remission

High rates of remission in controlled, short-term studies1

Long-term prevention (52 weeks) of relapse and recurrence²

Proven tolerability

Incidence of adverse events comparable to Celexa® (citalopram HBr)1

Convenient once-daily dosing

The first and only once-daily SNRI across its dose range²

EFFEXOR XR is believed to work by inhibiting the reuptake of both serotonin and norepinephrine.



IMPORTANT TREATMENT CONSIDERATIONS

Suicidality in Children and Adolescents.

Antidepressants increased the risk of suicidal thinking and behavior (suicidality) in short-term studies in children and adolescents with Major Depressive Disorder (MDD) and other psychiatric disorders. Anyone considering the use of EFFEXOR XR or any other antidepressant in a child or adolescent must balance this risk with the clinical need. Patients who are 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. EFFEXOR XR is not approved for use in pediatric patients.

EFFEXOR XR is contraindicated in patients taking monoamine oxidase inhibitors (MAOIs). Adult and pediatric patients taking antidepressants can experience worsening of their depression and/or the emergence of suicidality. Patients should be observed closely for clinical worsening and suicidality, especially at the beginning of drug therapy, or at the time of increases or decreases in dose. Anxiety, agitation, panic attacks, insomnia, irritability, hostility, impulsivity, akathisia, hypomania, and mania have been reported and may represent precursors to emerging suicidality. Stopping or modifying therapy should be

considered especially when symptoms are severe, abrupt in onset, or not part of presenting symptoms. Treatment with venlafaxine is associated with sustained increases in blood pressure (BP) in some patients. Regular BP monitoring is recommended. Abrupt discontinuation or dose reduction has been associated with discontinuation symptoms. Patients should be counseled on possible discontinuation symptoms and monitored while discontinuing the drug; the dose should be tapered gradually. The most common adverse events reported in EFFEXOR XR short-term placebo-controlled depression, generalized anxiety disorder (GAD), and/or social anxiety disorder trials (incidence ≥10% and ≥2x that of placebo) were anorexia, asthenia, constipation, dizziness, dry mouth, ejaculation problems, impotence, insomnia, nausea, nervousness, somnolence, and sweating.

References: 1. Data on file, Wyeth Pharmaceuticals Inc. 2. Effexor XR® (ventafaxine HCI) Extended-Release and Effexor Immediate-Release Prescribing Information, Wyeth Pharmaceuticals Inc.

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Please see brief summary of Prescribing Information on adjacent page.

VENLAFAXINE HCI

EFFEXOR XR® EXTENDED
RELEASE
CAPSULES Means Effective

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BRIEF SUMMARY. See package insert for full prescribing information.

Suicidality in Children and Adolescents

Antidepressants increased the risk of suicidal thinking and behavior (suicidality) in short-term studies in children and adolescents with Major Depressive Disorder (MDD) and other psychiatric disorders. Anyone considering the use of EFFEXOR XR or any other entidepressant in a child or adolescent must balance this risk with the clinical need. Patients who are 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. EFFEXOR XR is not approved for use in pediatric patients. (See Warnings and Precautions: Pediatric Use.)

Pooled analyses of short-term (4 to 16 weeks) placebo-controlled trials of 9 antidepressant drugs (SSRIs and others) in children and adolescents with Major Depressive Disorder (MDD), obsessive-compulsive disorder (OCD), or other psychiatric disorders (a total of 24 trials involving over 4,400 patients) have revealed a greater risk of adverse events representing suicidal thinking or behavior (suicidality) during the first few months of treatment in those receiving antidepressants. The average risk of such events in patients receiving antidepressants was 4%, twice the placebo risk of 2%. No

patients) have revealed a greater risk of adverse events representing suicidal thinking or behavior (suicidality) during the first tew months of treatment in those receiving antidepressants. He average risk of such events in patients receiving antidepressants was 4%, twice the placebo risk of 2%. No suicides concurred in these trials.

CONTRAINDICATIONS. Hypersensitivity to venletaxine hydrochloride or to any excipients in the formulation. Concominant use in patients taking monoamine oxidase inhibitors (MAIOs). WARNINGS: Clinical Worsening and Suicide Risk—Patients with major depressive disorder (MDD), both adult and pediatric, may experience worsening of their depression and ord for 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. There has been a long-standing concern that antidepressants was relied inducing worsening of depression and the emergence of suicidality in extrain patients. Antidepressants increased the risk of suicidal thinking and behavior (suicidality) in short-term studies in children and adolescents with MDD and other psychiatric disorders. It is unknown whether the suicidality risk in pediatric patients extends to longer-term use, i.e., beyond several months. It is also unknown whether the suicidality risk extends to adults. All pediatric patients being treated with antidepressants for any indication should be 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. Anothy, aguitation, patie, attacks, insomma, irritability, hotistity, aggressivence or decreases. Anothy, aguitation, patie, attacks, insomma, irritability, hotistity, aggressivence or decreases. Anothy, aguitation, patie, attacks, insomma, and adventise and anothy polychiatric and nonpsychiatric. Although a ca suicides occurred in these trials. discontinuation in 0.9% of depressed patients and in 3% of both Generalized Anxiety Disorder (GAD) and Social Anxiety Disorder (SAD) patients. Nervousness led to drug discontinuation in 0.9% of depressed patients, in 2% of GAD patients, and in 0% of SAD patients. Changes in Weight. Adult Patients. In short-term MDD trials, 7% of Effexor XR patients had ≥5% loss of body weight and 0.1% discontinued for weight loss. In 6-month GAD studies, 3% of Effexor XR patients had ≥5% loss of body weight, and 0.3% discontinued for weight loss in 8-week studies. In 12-week SAD trials, 3% of Effexor XR patients had ≥7% loss of body weight and no patients discontinued for weight loss. The satety and efficacy of ventafaxine in combination with weight loss agents, including phentermine, have not been established. Coadministration of Effexor XR and weight loss agents is not recommended. Effexor XR is not indicated for weight loss alone or in combination with other products. Pediatric Patients: Weight loss was seen in patients aged 6-17 receiving Effexor XR. More Effexor XR patients than placebo patients experienced weight loss of at least 3.5% in both MDD and GAD studies (18% vs. 3.6%; Pc.0.001). Weight loss was not limited to patients with treatment-emergent ancrexia (decrease appetite). Children and adelegeants in a 6-month stury had increase in weight less than encetch based on year-list than placebo patients exprienced weight uses of at least 3.5% in born MDD and Suddies (1984).
S. 3.6%; P-C.0.01). Weight loss was not limited to patients with treatment-emergent ancrexia (decreased appetite). Children and adolescents in a 6-month study had increases in weight less than expected based on data from age- and sex-matched peers. The difference between observed and expected weight gain was larger for children <12 years old than for adolescents >12 years old. Changes in Height: Pediatric Patients: In 8-week GAD studies, Effexor XR patients aged 6-17 grew an average of 0.3 cm (n=122), while placebo patients grew an average of 1.0 cm (n=132), P=0.041. This difference in height increase was most nable in patients grew an average of 0.7 cm (n=147). In a 6-month study, children and adolescents had height increases less than expected based on data from age- and sex-matched peers. The 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. Treatment-emergent anorexia was 0.9% for up to 8 weeks in GAD studies. Treatment-emergent anorexia was none commonly reported for Effexor XR (8%) than placebo (2%) patients in SAD studies. The discontinuation rate for anorexia was 0.9% for up to 8 weeks in GAD studies. Treatment-emergent anorexia was none commonly reported for Effexor XR (8%) than placebo (2%) patients in SAD studies. The discontinuation rate for anorexia was 0.9% for up to 8 weeks in GAD studies. The discontinuation rate for anorexia was 0.9% for up to 8 weeks in SAD studies. Pediatric Patients: Decreased appetite was seen in pediatric patients receiving Effexor XR. In GAD 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 was 10% o Mania/Hypomania: Mania or hypomania has occurred during short-term depression studies. Effexor XR should be used cautiously in patients with a history of mania. Hyponatremia: Hyponatremia and/or the

syndrome of inappropriate antidiuretic hormone secretion (SIADH) may occur with venlafaxine. Consider this in patients who are volume-depleted, elderly, or taking diuretics. *Mydriasis*: Mydriasis has been reported; monitor patients with raised intracular pressure or at risk of acute narrow-angle glaucoma (angle-closure glaucoma). *Selzures*: In all premarketing depression trials with Effexor, seizures were reported in 0.3% of venlafaxine patients. Use cautiously in patients with a history of seizures. Discontinue in any patient who develops seizures. *Abnormal Bleedding*: Abnormal bleeding (most commonly ecohymosis) has been reported. *Serum Cholesterol Bevation*: Clinically relevant increases in serum cholesterol were seen in 5.3% of venlafaxine patients and 0.0% of placebo patients treated for at least 3 months in trials. Consider measurement of serum cholesterol levels during long-term treatment. *Use in Patients With Concomitant Illness*: Use Effexor XR cautiously in patients with diseases or conditions that could affect hemodynamic responses or metabolism. Venlafaxine has not been evaluated in patients with recent history of MI or unstain beart disease, Increases in OT interval (OTc) have been reported in clinical studies. Secreise caution in patients whose underlying medical conditions might be compromised by increases in heart rate. In patients with renal impairment or cirrhosis of the liver, the clearances of venlafaxine and its active metabolities were decreased. whose underlying medical conditions might be compromised by increases in heart rate. In patients with renal impairment or circhosis of the liver, the clearances of ventilatavine and its active metabolities were decreased, prolonging the elimination half-lives. A lower dose may be necessary; use with caution in such patients. Information for Patients —Prescribers or other health professionals should inform patients, their families, and heir caregivers about the benefits and risks associated with treatment with Effexor XR and should counsel them in its appropriate use. A patient Medication Guide About Using Antidepressants in Children and Teenagers is available for Effexor XR. 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 and their caregivers from the approved prescribing information. Patients should be advised of the following issues and asked to alter their prescriber if these occur while taking Effexor XR. Clinical Worsening and Suicide Risk. Patients, their families, and their caregivers should be encouraged to be alert to the emergence of symptoms listed in WARNINGS: Clinical Worsening and Suicide Risk. especially those seen early during antidepressation was the semage of the support of the emergence of 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 prescriber or health professional especially if they are severe, abrupt in onset, or were not part of the patient's prescriber or health professional especially if they are severe, abrupt in onset, or were not part of the patient's prescriber or health professional especially if they are severe, abrupt in onset, or were not part of the patient's prescriber or health professional especially if they the PK of diazepam or its active metabolite, desmethyldiazepam, or affect the psychomotor and psychometric effects induced by diazepam. **Aloperidol** Venlafaxine decreased total oral-dose clearance of haloperidol, resulting in a 70% increase in haloperidol. All C. The haloperidol C_{max} increased 88%, but the haloperidol elimination half-life was unchanged. **Lithium** A single dose of lithium in did not appear to affect the PK of either venlataxine or ODV. Venlafaxine had no effect on the PK of lithium. **Drugs Highly Bound to Plasma Proteins**. Venlafaxine is not highly bound to plasma proteins; coadministration of Effeor XR with a highly protein-bound drug should not cause increased free concentrations of the other drug. **Drugs that Inhibit Cytechrome P450 Isoenzymes**. CYP2D6 Inhibitors: Venlafaxine is metabolized to its active metabolite, ODV, by CYP2D6. Drugs that Inhibit Cytechrome P450 Isoenzymes**. CYP2D6 Inhibitor. Concomitant use of venlafaxine with drug treatment(s) that potentially inhibits both CYP2D6 and CYP3A4, the primary metabolizing enzymes for venlafaxine, has not been studied. Use caution if therapy includes venlafaxine and any agent(s) that produces simultaneous inhibition of these two enzyme systems. **Drugs Metabolized by Cytochrome P450 Isoenzymes**. Venlafaxine is a relatively weak inhibitor of CYP2D6. Sendaxine did not inhibit CYP1A2 and CYP3A4, CYP2C9 (in vitro), or CYP2C19. **Imipramine**. Venlafaxine did not inhibit CYP1A2 and CYP3A4. CYP2C9 (in vitro), or CYP2C19. **Imipramine**. Venlafaxine did not affect the PK of venlafaxine and ODV. **Integratione**. Venlafaxine sia a relatively weak inhibitor increased by ~35% in the presence of venlafaxine. The 2-OH-desipramine AUCs increased by 2.5-4.5 fold. Imipramine did not affect the PK of venlafaxine and ODV. **Integratione**. Venlafaxine did not inhibit CYP1A3** increased in risperidone AUC. Venlafaxine coadministration did not significantly after the PK profile of the total active metabolite. **Orthoratione**. Venlafaxine don to hi not affect the PK of venlafaxine and ODV. **Risperidone**. Venlafaxine** eligibility inhibited the CYP2D6-mediated metabolism of risperidone but is active motiety disperidone, resulting in a -32% increase in risperidone AUC. Venlafaxine coadministration did not significantly alter the PK profile of the total active motely (risperidone) pulse 9-hydroxyrisperidone). CYPAA** Venlafaxine did not inhibit CYP3A4* in vitro and in vivo vindinavir in a study of 9 healthy volunteers, venlafaxine administration resulted in a 28% decrease in the AUC of a single 600 elose of indinavir and a 36% decrease in indinavir. Com. Indinavir did not affect the PK of venlafaxine and 000 CYP1A2**. Venlafaxine did not inhibit CYP1A2 in vitro and in vivo. CYP2C9: Venlafaxine did not inhibit form in vivo venlafaxine did not inhibit form in vivo venlafaxine did not inhibit me netabolism of diazepam, which is partially metabolized by CYP2C19 (see Diazepam about) and inhibit the metabolism of diazepam, which is partially metabolized by CYP2C19 (see Diazepam about) and inhibit the metabolism of diazepam, which is partially metabolized by CYP2C19 (see Diazepam about) and inhibit the metabolism of diazepam, which is partially metabolized by CYP2C19 (see Diazepam about) and inhibit the metabolism of diazepam, which is partially metabolized by CYP2C19 (see Diazepam about) and inhibit met

hypertonia, paresthesia, libido decreased, agitation, anxiety, twitching. <u>Respiratory System</u>: pharyngitis, yawn, sinusitis. <u>Skin</u>: sweating. <u>Special Senses</u>: abnormal vision. <u>Urogenital System</u>: abnormal ejaculation, impotence, orgasmic dysfunction (including anorgasmia) in females. **Vital Sign Changes**: Effexor XR was hypertonia, paresthesia, libido decreased, agitation, anxiety, twitching, Bespiratory System; pharyngitis, yan, sinusitis, Skin: sweating, Special Senses: abnormal vision. Urgenital System: abnormal ejaculation, impotence, orgasmic dysfunction (including anorgasmia) in females. Vital Sign Changes: Effexor XR was associated with a mean increase in pulse rate of a boat 2 beats/min in depression and GAD trials and a mean increase in pulse rate of 4 beats per minute in SAD trials. (See WARNINGS-Sustained Hypertension). Laboratory Changes: Clinically relevant increases in serum cholesterol were noted in Effexor XR clinical trials increases were duration dependent over the study period and tended to be greater with higher doses. Other Events Observed During the Premarketing Evaluation of Effexor and Effexor XR—N=5079. Frequent:—events occurring in at least 17/100 patients: "infrequent":—17/100 to 11/100 patients:—events occurring in at least 17/100 patients: "infrequent":—17/100 to 11/100 patients:—events occurring in at least 17/100 patients: provided the deman intentional injury, malaise, moniliasis, neck rigidity, pelvic pain, photosensitivity reaction, suicide attempt, withdrawal syndrome; Rare: appendicitis, bacterenia, carcinoma, cellulitis. Eardlovascular system - Frequent: migraine, postural hypotension, tachycardia; infrequent: angina pectoris, arrhythmia, extrasystoles, hypotension, peripheral vascular disorder (mainly cold feet and/or cold hands), syncope, thrombelbitis; Rare: aortic aneurysm, arteritis, first-degree atrioventricular block, bigeminy, bradycardia, bundle branch block, capillary fragility, cerebral ischemia, coronary artery disease, congestive heart failure, heart arrest, cardiovascular disorder (mitral valve and circulatory disturbance), mucocutaneous hemorrhage, myocardiai infarci, pallor, Depastive system - Frequent: increased appetite; Infrequent: bruxism, colitis, dysphagia, tongue dema, esophagitis, gastritis, gastroenteritis, gastrointestinal bemorrhage, gum hemorrhage, hemorrhage, sp reaction, paresis, psychotic depression, reflexes decreased, reflexes increased, suicidal ideation, torticolity, Respiratory system - Frequent: cough increased dyspena; Infrequent: astma, chest congestion, epistaxis, hyperventilation, laryngismus, laryngitis, pneumonia, voice alteration; Rare: atelectasis, hemoptysis, hypoventilation, hypoxia, larynx edema, pleurisy, pulmonary embolus, sleep apnea. Skin and appendages, Frequent: pruritus; Infrequent: acne, alopecia, brittle nails, contact dermattils, dry skin, exzema, skin hypertrophy, maculopapular rash, psoriasis, urticaria; Rare: erythema nodosum, exfoliative dermatitis, lichenoid dermatitis, har discoloration, skin discoloration, furnculosis, hirsutism, leukoderma, petectial ratio, pustular rash, vesiculobullous rash, seborrhea, skin atrophy, skin striae. Special senses - Frequent: abnormality of accommodation, mydriasis, taste perversion; infrequent: cataract, conjunctivitis, corneal lesion, dictionia dry ever ever expending defect. abnormality of accommodation, mydriasis, taste perversion; Infrequent: cataract, conjunctivitis, corneal lesion, diplopia, dry eyes, eye pain, hyperacusis, otitis media, parosmia, photophobia, taste loss, visual field defect; Rare: blepharitis, chromatopsia, conjunctival edema, deafness, exophthalmos, glaucoma, retinal hemorrhage, subconjunctival hemorrhage, keratitis, labyrinthitis, miosis, papilledema, decreased pupillary reflex, otitis externa, scleritis, uveitis. <u>Urogenital system</u> - Frequent: metrorrhagia, prostatic disorder (prostatitis and enlarged prostate), urination impaired, vaginitis; Infrequent: albuminuria, amenorrhea, cystitis, dysuria, hematuria, leukorrhea, menorrhagia, nocturia, bladder pain, breast plain, polyuria, pyuria, vinray incontinence, urinary retention, urinary urgenov, vaginal hemorrhage; Rare: abortion, anuria, breast discharge, breast engorgement, balanitis, breast enlargement, endometriosis, female lactation, fibrocystic breast, calcium prostatilistic excisitis excisit hematuria, leukorrhea, menorrhagia, nocturia, bladder pain, breast pain, polyuria, prunta, vinrary incontinence, urinary retention, urinary urgency, vaginal hemorrhage; Rare: abortion, anuria, breast discharge, breast engorgement, balanitis, breast enlargement, endometriosis, female lactation, fibrocystic breast, calcium crystalluria, carvicitis, orchitis, ovarian cyst, prolonged erection, gynecomastia (malle), hypomenorhae, kidney calculus, kidney pain, kidney function abnormal, mastitis, menopause, pyelonephritis, oliguria, salpingitis, urolitriasis, uterine hemorrhage, uterine spasm, vaginal dryness. Postmarketing Reports: agranulocytosis, anaphylaxis, aplastic anemia, catatonia, congenital anomalies, CPK increased, deep vien thrombophiebitis, delirium, EKG abnormalities such as QT prolongation; cardiac arrhythmias including atrial fibrilliation and ventricular tachycardia, entricular extrasystoles, and rare reports of ventricular fibrilliation and ventricular tachycardia, entricular extrasystoles, and rare reports of ventricular fibrilliation and ventricular tachycardia, encluding torsades de pointes; epidermal necrosis/Stevens-Johnson Syndrome, erytherm multiforme, extrapyramidal symptoms (including dyskinesia and tardive dyskinesia), angle-closure glaucoma, hemorrhage (including eye and gastrointestinal bleeding), hepatic events (including GCT elevation; abnormalities of unspecified liver function tests; liver damage, necrosis, or fallure; and fatty liver), involuntary movements, LDH increased, neuroleptic malignant syndrome-like events (including a case of a 10-year-old who may have been taking methylphenidate, was treated and recovered), neutropenia, night sweats, pancreatitis, pancytopenia, panic, protactin increased, pulmonary eosinophilia; rant fallure, rhabomyolysis, serotonin syndrome, shock-like electrical sensations or timitus (in some cases, subsequent to the discontinuation of veniataxine in tapening of dose), and SIADH (usually in the elderly). Elevated clozapine levels when veniataxine increa

The International Journal of Neuropsychiatric Medicine

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CME OUIZ

327 The quiz on neuropathic pain is CME-accredited by Mount Sinai School of Medicine for 3.0 credit hours. Founded in 1996, CNS Spectrums is an Index Medicus journal and is available on MEDLINE under the citation CNS Spectr. It is available online at www.cnsspectrums.com. CNS Spectrums is also distributed to all CINP members and is accredited for international CME by EACIC.

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BPA Worldwide Membership Applied for August 2004.

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*New prescriptions, Sept. 04-Jan. 05. Total prescriptions, Jan. 05. IMS Health, National Prescription Audit,

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.

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.



AstraZeneca Pharmaceuticals LP

INDICATIONS AND USAGE: Bipolar Mania: SEROQUEL is indicated for the treatment of acute ma INDICATIONS AND USAGE Blooker Mania: SEROULE is indicated for the treatment of acute manic episodes associated with blookar I advorte, as either montherapy or adjunct therapy to lithium or divalorous. The efficacy of SEROULE in acute bipolar mania was established in two 12-week monotherapy treats and one 3-week adjunct therapy to lithium or divalorous that the service of the ser

CONTRAINDICATIONS: SEROQUEL is contraindicated in individuals with a known hypersensitivity to

WARNINGS. Neurolepite Malignant Syndrome (NMS): A potentially fatal symptom complex some-times referred to as MMS has been reported in association with administration of antipsychotic drugs, including SEROUBLE. Para case of NMS have been reported with SEROUBLE. Clinicar manifesta-tions of NMS are hyperprexia, muscle rigidity, altered mental status, and evidence of autonomic instability. See that Prescribing Information for more information on the mainfestations, diagnosis and management of NMS. It a patient requires antipsychotic drug treatment after recovery from MMS, the potential entertodiction of drug thereby should be carefully monitored since recurrences of NMS have been reported. Tardfive Dysthosaics A syndrome of objectable interventable involutative, ovidented monitories may developed in ordinaries referred with management of NMS. It a patient requires antibosychotic drug treatment after recovery from NMS, the potential rientroduction of upon therapy should be carefully considered. The patient should be carefully monitored since recurrenoss of NMS have been reported. Tardive Dystinesis: A syndrome of potentially intreversible, involuntary, dystainetic movements may develop in patients readed with antipsychotic drugs. Although the prevalence of the syndrome appears to be highest among the elderly, especially deldry women, it is impossible to rely upon prevalence settinises 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 lardived dystinesis as inchrown. The risk of developing tardive dystinesis and the likelihood that it will become irreversible are believed to increase as the curation of treatment and the total curvalished dystinesis and the syndrome can develop, although much less commonly, after relatively brief treatment periods at low doese. There is no known treatment of resibilisted cases of tardive dysdensesia, although the syndrome may remit, partially or completely, if antipsychotic treatment is withdrawn. Antipsychotic treatment sell, however, may suppress (or partially suppress) the signs and symptoms of the syndrome and thereby may possibly mask the underlying process. The effect that was a symptoms of the syndrome and thereby may possibly mask the underlying process. The effect that symptomatic syndrome is unknown. Given these considerations, SEROUEL. should be prescribed in a manner that is most likely to minimize the course of the syndrome is unknown. Given these considerations, SEROUEL. should be prescribed in a manner that is most likely to minimize the course of the syndrome is unknown. Given these considerations, SEROUEL. should be prescribed in a manner that is most likely to minimize the construction of the should be prescribed in a manner that is most likely to minimize

plycenia dump goryuspe, jourgius, jourgius, and reachies, and water with a wind place a testing in some cases. hypergycemia has resolved when the algorithm and place and glocose testing in some cases. hypergycemia has resolved when the algorithm and the special places are specially as a patient of the place of the p when presoning sectorized to patients with white experiencing controlled which may constitute that of 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 dysmolility 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. SEROULEL and other archesycholic drugs should be used cardiously in patients at risk for aspiration pneumonia. Suched: 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 SEROULEL in patients with the smallest quantity of tablets consistent with good patient management in order to reduce the risk of overflose. Use in Patients with Conomitant Illness: Clinical experience with SEROULEL in patients with caron conomitant systemic illnesses is limited. SEROULE has not been evaluated or used to any appreciable extent in attention of the caron history of movocrafici infarction or unstable hearts with cracen incommand the proportion of the patients. Physicians are advised to consult the full Prescribing Hypotension, Information for Patients: Physicians are advised to consult the full Prescribing information in details of the toldowing issues to discuss with patients for whom they prescribe SEROULEL controlstate Hypotension, Internations of the full Prescribing information in details of the toldowing issues to discuss with patients for whom they prescribe SEROULEL controlstate Hypotension, interference with Cognitive and Motor Performance, Pregnancy, Nursing, Concommant Medication, Alchobing, and the Chapositer and Deviation of the Chapositer and Chapositer and Patients of the Chapositer and Patients for whom they prescribe SEROULEL organization and the data of the chapositer and patients of the chapositer and patients of the chapositer and patients of the chapositer and patients. Patients and the primary ONS effects of SEROULEL, caution should ed in a 20% decrease in the mean oral clearance of questapine (150 mg tidi, Desage aguistment for equilatione in the required when it is given with cimedition—PASI 3A hebitations: Coadministration of electrocazale (200 mg once daily for 4 dags); a potent inhibitor of optochrome PASI 3A, reduced on all declarance of questapine by 84%; resulting in a 33%; incurrease in maximum glasma connentration of questapine. Caution is indicated when SERDOUEL is administrated with ketocorazole and other inhibitors of optochrome PASI 3A, reduced on a quidal did not alter the steady-state pharmacoixinetics of questapine. Effect of Questapine on Other quid (i) did not alter the steady-state pharmacoixinetics of questapine. Effect of Questapine on Other prags; Lorazagam The mean oral clearance of totagenam 2 cm, single decay was reduced by 20% in the presence of questapine administered as 250 mg tid dosing. Divelaprear: The mean maximum concentration and extent of absorption of total and the seption call of steady state were decreased to the capacity of the state of the concentration and extent of absorption of total and the seption call of steady state were decreased or the capacity of the state of the concentration and clearance of totagenam of the state of the concentration and clearance of the capacity of the state of the concentration and clearance of the concentration of the state of the concentration of the concentr

plasma clearance of SEROOUEL was reduced by 30% to 50% in elderly patients when compared to younger patients.

ADVERSE REACTIONS: The Information below is derived from a clinical trial database for SEROOUEL consisting of your 9000 patients, 0f these approximately 3000 subjects, approximately 2700 (2300 in schizophrenia and 405 in acute bepolar mana) were patients who participated in multiple dose effectiveness trials, and their experience corresponded to approximately 91.3, patient-years, Relief to the Information for dealls of adverse event data collection. Adverse Findings Observed in Shorf-Term, Dantrolled trials: Adverse Events Associated with Discontinuations of breathand Shurf-Term, Dantrolled Trials: Shorf Mania: Overall, Scionorituations of the solder of Shurf-Term, Short Outer, 15 of pacebo in monotherapy and 3.9% for SEROOUEL vs. 5.1% for placebo in monotherapy and 3.9% for SEROOUEL vs. 5.9% for pacebo in adjunct therapy. Schizophrenia (by bereal) there was the incidence of discontinuation due to adverse events (4% for SEROOUEL vs. 3.3% for placebo and Hypotension of the incidence of discontinuation due to adverse events (4% for SEROOUEL vs. 3.3% for placebo and Hypotension of the order of the provent of continuations due to sometime to adverse events for a for placebo and Hypotension of the order of the order of the provent of the provent of the order of the provent of the order of the provent of the order of the

Repulsarder, Prairugils, Rhimicis, Salhi anal Appandages: Rash; Special Senses: Ambhyopia. In these studies, the most commonly observed adverse events associated with the use of SEROULE (incidence of 5% or grately) and observed of a rate on SEROULEL all sest twice that of placebo were somedience (18%), dizzinesis; and dispapsa; doi: 1, bite 2 entimetrates is the incidence of 15% and dispapsa; doi: 1, bite 2 entimetrates is the incidence of service of the service of t

and steven Johnson syndrome (SJS).

URUG ABUSE AND DEPUNDENCE: Controlled Substance Class: SEROQUEL is not a controlled substance. Physical and Psychologic dependence: SEROQUEL has not been systematically studied, in animals or humans, for its potential for abuse, tolerance or physical dependence. While the clinical risid did not reveal any tendency for any drug-sekling 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 with be misses, diverted, andror abused once marked. Consequently, patients should be evaluated carefully for a history of drug abuse, and such gatients should be observed closely for signs of misse or abuse or SEROQUEL, e.g., development of tolerance, increases in dose, drug-seeking behavior.

ly for signs of misuse or abuse of SEROOUEL, e.g., development of toterance, increases in dose, drug-seeking behavior.

OVERDOSAGE: Human experience: Experience with SEROOUEL (questiapine (umarate) in acute overocase) was imitted in the clinical rial database (6 reports) with settlanded doses ranging from 1200 mg to 9600 mg and no fatalities in general, reported signs and symptoms were those resulting from an exappeation of the drug's known pharmacological effects, i.e., drowsiness and sodiction, tachucardia and hypotension. One case, involving an estimated overdose of 9600 mg, was associated with hypotensions and first dependent between the control of the properties of the properties. The previous properties of the patients with a calculate or an experience of the properties of the patients with a calculate or properties upson from an intervention of the patients of the patients with a calculation of the patients of the patients with a calculated or properties and properties upson from a properties upson from a properties and properties upson from a properties upson from a properties upson from a properties upson from the patients with a continuation of the patients of the patients with a calculated or considered. The possibility of multiple dury involvement should be considered. Hypotension and the properties upson and properties and properties upson the properties upson the patients with a cap

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Manufactured for: AstraZeneca Pharmaceuticals LP Wilmington, Delaware 19850-5437