CNS SPECTRUMS® The International Journal of Neuropsychiatric Medicine

REVIEW ARTICLES

The Treatment of Neuropathic Pain *R. Freeman*

SNRIs: Their Pharmacology, Clinical Efficacy, and Tolerability in Comparison with Other Classes of Antidepressants S.M. Stabl, M.M. Grady, C. Moret, and M. Briley

> Auditory Abnormalities in Autism: Toward Functional Distinctions Among Findings G.R. Kellerman, J. Fan, and J.M. Gorman

ORIGINAL RESEARCH

Characteristics of Aggression in Clinically Referred Children K.Z. Bambauer and D.F. Connor

Anxiety and Schizophrenia: The Interaction of Subtypes of Anxiety and Psychotic Symptoms J.D. Huppert and T.E. Smith

CLINICAL COLUMN

Interactive Case Conference: First Episode: Depression and Panic Disorder D.L. Dunner



Index Medicus/MEDLINE citation: CNS Spectr

When You Treat ADHD...



ADDERALL XR[®] Delivers Efficacy That May Help Patients Realize Their Potential

- Symptom reduction to a level comparable to that of non-ADHD peers'
- Rapid onset (1.5 hours) and 12-hour dose-responsive efficacy for day-long improvement in both academic and social settings^{*2-5}
- · 6 dosage strengths for maximum flexibility
- Generally well tolerated—low discontinuation rates due to adverse events in placebo-controlled trials²⁻⁴

*Average mean for all doses tested. *IMS Dataview, May 2005. Please see references and brief summary of prescribing information on adjacent page.

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Shire US Inc. ...your ADHD support company²⁰ 1-800-828-2088

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Reach new heights

Important Safety Information

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.

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: I. Ambrosini PJ, Lopez FA, Chandler MC, et al. An open-label community assessment of ADDERALL XR in pediatric ADHD. Poster presented at: 155th Annual Meeting of the American Psychiatric Association; May 22, 2002; Philadelphia, Pa. 2. Data on file, Shire US Inc., 2005. 3. Biederman J, Lopez FA, Boellner SW, Chandler MC. A randomized, double-blind, placebo-controlled, parallel-group study of SLJ381 (Adderall XR) in children with ADHD. J Am Acad Child Addecs Psychiatry: 2003; 110:258-266. 4. MCCracken JT, Biederman J, Greenhill L, et al. Analog classroom assessment of a once-daily mixed amphetamine guality of life measures from an open-label community assessment trial. Poster presented at: 14th Annual CHADD International Conference; October 17, 2002; Miami Beach, Fla. BRIEF SUMMARY: Consult the full prescribing information for complete product information. ADDERALL XR® CAPSULES 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-THERAPPENTIOUS USE OD DISTRIBUTION TO OTHER BAUGS SHOULD BE PRESED DR DISPENSED SPARINGLY.

ONE DOSE DAILY

DERALL XR[®] (II

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 SPARINGLY. MISUSE OF AMPHETAMINE MAY CAUSE SUDDEN DEATH AND SERIOUS CARDIOVASCULAR ADVERSE EVENTS

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 children aged 6 to 12, and one controlled trial in adults who met DSM-IV criteria for ADHD (see CLINICAL PHARMACOLOGY), along with extrapolation from the known efficacy of ADDERALL®, the immediate-release formulation of this substance.

CONTRAINDICATIONS

Advanced arteriosclerosis, symptomatic cardiovascular disease, moderate to severe hypertension, hyperthyroidism, known hypersensitivity or idiosyncrasy to the sympa-thornimetic 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

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 chrono is use of stimulants in children, including amphetamine, may be causally association 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 Sinctural Cardiac Abnormalities: Sudden death has been reported in association with amphetamine treatment at usual doess in children with structural cardiac abnormalities. 5 mg, 10 mg, 15 mg, 20 mg, 25 mg, 30 mg CAPSULES (Mixed Salts of a Single-Entity Amphetamine Product) Dextroamphetamine Sulfate Dextroamphetamine Sacharate Amphetamine Aspartate Monohydrate Amphetamine Sulfate

PRECAUTIONS

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

General: The test amount or amplications to solve anote as presented a second second and the second second

Idee CONTRAINDICATIONS). Blood pressure and pulse should be monitored at appropriate intervals in patients taking ADDERAL XR*, especially patients with patients and phonic tits and Tourette's syndrome. Therefore, and the ability of the patient to engage in potentially hazardous activities such at one of the ability of the patient to engage in potentially hazardous activities such at one or whicks: the patient should therefore be caralised accordingly. Or glinteractions: Activity or whicks: the patient should therefore be caralised accordingly. The patient and the ability of the patient to engage in potentially hazardous activities such as operating machinery vecterion. Both trongs of agents to divity agents and effects of ampletamines. *Jointary active* blood levels and effects of ampletamines and effects of ampletamines. *Jointary active* blood levels and therefore potentiate the actions of ampletamines. *Jointary accession* and accessible levels and therefore potentiate the actions of ampletamines and sustained increases in the concentration of the non-lonized species of the ampletamine indecule, thereby discreasing unanay excertion. Both trongs of agents therase biod levels and therefore potentiate the actions of ampletamines. *Jointal acquistantes and organistantes* and other simo organistantes and sustained increases in the concentration of ampletamine in the active simolation. *Jointal active simolation active sim*

ADVERSE EVENTS

ADVERSE EVENTS The premarketing 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 6 to 12) were evaluated in two controlled clinical studies, one open-label clinical study, and two single-dose clin-ical pharmacology studies (N=40). Safety data on all patients are included in the discussion that follows. Adverse

standardized event categories. In the tables and listings that follow, COSTART terminology has been used to cassing 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 insomia) 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 % of negative distributions (n=595)

% of pediatric patients discontinuing (n=595) 2.9

Adverse event Anorexia (loss of appetite) Weight loss Emotional lability Depression

1.0

0.7

Depression 0.7 **25 mg, 30 mg CAPSULES** Warmpetamine Producti troamphetamine Suifab Diod pressure, and weight loss. **Adverse** events arong ADDEFALL XR®-treated patients (N=191) were 3.1% (n=6) for nervousness including anxiety and irritability. 2.6% (N=191) were 3.1% (n=6) for nervousness including anxiety and irritability. 2.6% (N=191) were 3.1% (n=6) for nervousness including anxiety and irritability. 2.6% (N=191) were 3.1% (n=6) for nervousness including anxiety and irritability. 2.6% (N=191) were 3.1% (n=6) for nervousness including anxiety and irritability. 2.6% (N=191) were 3.1% (n=6) for nervousness including anxiety and irritability. 2.6% 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 ADDEFALL XR® or placebo are presented in the tables below. The prescriber should be aware that these figures cannot be used to predict the incidence of adverse events invebring different treatments uses, and investigators. The clief digrues, 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. Table 1. Adverse Events Recordel W More Than 1% of Pediatric Patients Receiving ADDEFALL XR® with

Table 1	Adverse	Events	Reported	by More	Than	1% 0	f Pediatric	Patients	Receiving	ADDERALL	XR®	with
Higher Ir	ncidence	Than or	1 Placebo	in a 584	Patien	t Clini	ical Study		-			

Body System	Preferred Term	ADDERALL XR® (n=374)	Placebo (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 Lability	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 Than on Placebo in a 255 Patient Clinical Forced Weekly-Dose Titration Study*

Body System	Preferred Term	ADDERALL XR® (n=191)	Placebo (n=64) 5% 13%	
General	Asthenia Headache	6% 26%		
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, constipation, tooth disorder, emotional lability, libido decreased, somnolence, speech disorder, palpitation, twitching, dyspnea, sweating, dysmenorrhea, and impotence.

included doses up to 60 mg.

The following adverse reactions have been associated with amphetamine use: Cardiovascular. Palpitations, tachycardia, elevation of blood pressure, sudden death, myccardia infarction. There have been isolated reports of cardiomyopathy associated with chronic amphetamine use. Central Nervous System: Psychotic episodes at recomended does, overstimulation, restlesses, dizziness, insomnia, euchoria, dystaint aptento pisotos at rockets, imended doese, overstimulation, restlesses, dizziness, dizziness, insomnia, euchoria, dystaintesia, dysphoria, depression, tremor, headache, exacerbation of motor and phonic tics and Tourette's syndrome, seizures, stroke. Gastrointesinai Dryness of the mouth, unpleasant taste, diarrhea, constipation, other gastrointesinai disturbances. Anorexia and weight loss may occur as undesirable effects. Allergic: Urticaria. Endocrine: Impotence, changes in libido.

weight loss may occur as undesirable effects. Allergic: Urticaria. Endocrine: Impotence, changes in libido. DRUG ABUSE AND DEFENDENCE ADDEFALL XRP 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, irritability, hyperactivity, and personality changes. The most severe manifestation of chronic intoxication is psychosis, often clinically indistinguishable from schizophrenia.

OVERDOSAGE

Trom schizophreina. **DVERDOSAE** Individual patient response to amphetamines varies widely. Toxic symptoms may occur idiosyncratically at low doese. Symptoms: Manifestations of acute overdosage with amphetamines include restlessness, tremor, hyper-reflexia, rapid respiration, confusion, assaultiveness, hallucinations, panic states, hyperpyrexia and rhabdomyoi-yais. Fatigue and depression usually follow the central nervous system stimulation. Cardiovascular effects include arrhythmias, hypertension on hypotension and circulatory collapse. Castrointestinal symptoms include nausea, vomiting, diarrhea, and abdominal cramps. Fatal poisoning is usually preceded by convulsions and coma. Treatment: Consult with a Certified Poison Control Centre for up to date guidance and advice. Management of acute amphetamine intoxication is largely symptomatic and includes gastric lavage, administration of acute that administration of a cathartic and sedation. Experience with hemodalysis or peritoneal dialysis is inadequate to increase risk of acute renal failure if mycojobiuria is present. If acute severe hypertension complicates ampheta-mine overdosage, administration of intravenous phentolamine has been achieved. Chlorpromazine antagonizes the central stimulant effects of amphetamines and tab used to treat amphetamine intoxication. The prolonged release of mixed amphetamine saits from ADDERALL XR® should be considered when treating Excursions permitted to 15-30° C (59-68° F) [see USP Controlled Room Temperature]. Manufacture for: Shire US Inc., Wayne, PA 19087 Made in USA For more information call 1-800-828-2088.or wist www.adderailx.com. ADDERALL XR® and ADDERALL XR® and registered in the USP store at 25° C (77° F). Excursions permitted to 15-30° C (59-68° F) [see USP Controlled Room Temperature]. Manufacture for: Shire US Inc., Wayne, PA 19087 Made in USA For more information call 1-800-828-2088.or wist www.adderailx.com. ADDERALL XR® and RDERALL XR® and registered in the USP store at 25° C wist www.adder



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The International Journal of Neuropsychiatric Medicine

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Jonathan D. Huppert, PhD, University of Pennsylvania School of Medicine; and Thomas E. Smith, MD, College of Physicians & Surgeons of Columbia University

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.

residual symptoms sadness low energy anxiety

recurrence

of unresolved depression with EFFEXOR XR^{1,2}

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

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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 $\geq 10\%$ and $\geq 2x$ that of placebo) were anorexia, asthenia, constipation, dizziness, dry mouth, ejaculation problems, impotence, insomnia, nausea, nervousness, somnolence, and sweating.

relapse

Please see brief summary of Prescribing Information on adjacent pages.

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



VENLAFAXINE HCI EFFEXOR XR MELASE

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 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. (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 advress 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 suicides occurred in these trials.

In this of the second s

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 reised intraccular pressure or at risk of acture narrow-angle glaucoma (angle-closure glaucoma). *Seizures*: In all premarketing depression trials with Effexor, seizures were reported in 0.3% of venlafaxine patients. Use cutiously in patients with a history of seizures. Discontinue in any patient who develops seizures. *Anormal Bleeding:* Anormal bleeding (most commonly ecchymosis) has been reported. *Serum Cholesterol Elevation:* Clinically relevant increases in serum cholesterol were seen in 5.3% of venlafaxine patients. Use cutiously in patients with diseases or conditions that could affect hermodynamic responses or metabolism. Venlafaxine has not been evaluated in patients with recent history of MI or unstable heart disease. Increases in 0.1 rinterval (Drc) have been reported in clinical studies. Evercise 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 metabolites were decreased, prolonging the elimination hall-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 their 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* should be given the opportunity to discuss the contents of the Medication Guide and to obtain answers to any questions they may have. The complete tox of the Medication Guide is available at <u>www.effexor.com</u> or in the approved prescribing information. Patients, should be advised of the follow should be given the opportunity to discuss the contents of the Medication Guide is available at <u>www.effscorr.com</u> or in the approved prescribing information. Patients should be advised of the following issues and asked to alert their prescriber of these occuraged to be alert to the emergence of symptoms listic Patients, their trainiles, and their caregivers should be encouraged to be alert to the emergence of symptoms listed in **WARNINGS: Clinical Worsening and Suicide Risk**, Patients, their treatment and when the dose is adjusted up or down. Femilies and caregivers of patients should be advised to observe for the emergence of such symptoms to reach nearly protessional, especially those seen early during antidignessant treatment and when the dose is adjusted up or down. Femilies and caregivers of patients should be advised to observe for the emergence of such symptoms is prescriber or health protessional, especially they are seen-acry during they are reasonably sure that venifaxine does on talversely affect their abilities. Tell patients to avoid alcohol while taking Effexor XR and to notify their physician 1) if they become pregnant during therapy, or if they are taxing or plan to take; 3) if they develop a rash, lives, or related allerigic phenomena. Laboratory Tests—No specific laboratory tests are recommended. Drug Interactions—*Alcohol: A* single dose of ethanol had no effect on the pharmacoknetics (PK) of venlataxine or O-desmethylvenlataxine. (OW), and venlataxine edin durin, beraper, 2 about other prescribin or one phase distribution, and the eldively. *Diszopam: A* single dose of diszopam, or affect the psychometric effects induced by diazepam. *Hisportabilite*: Use caution when administering venlataxine is did not have any effect on the PK of diazepam or its active metabolite. ON: Negetific laboratory, and the psychometric effects induced by diazepam. *Hisportabilite*: Venlataxine edin during beraper Venlataxine is motalized of the solution of an especifical bord of experimed venlataxine and ono effe Carcinogenesis. Mutagenesis, Impairment of Fertility—*Carcinogenesis*: There was no increase in tumors in mice and rats given up to 1.7 times the maximum recommended human dose (MRHD) on a mg/m² basis. *Mutagenesis*: Vertilataxine and ODV were not mutagenic in the Ames reverse mutation assay in Salmonelia bacteria or the CHO/HGPRT mammalian cell forward gene mutation assay. Ventafaxine was not clastogenic in several assays. DDV elicited a clastogenic response in the in vivo chromosomal aberration assay in rat bone marrow. *Impairment of Fertility*: No effects on reproduction or fertility in rats were noted at oral doses of up to 2 times the MRHD on a mg/m² basis. *Pregnancy—Teratogenic Effects—Pregnancy Category C* Reproduction studies in rats given 2.5 times, and rabbits given 4 times the MRHD (mg/m² basis) revealed no malformations in offspring. However, in rats given 2.5 times the MRHD, there was a decrease in pup weight, an increase in stillitom pups, and an increase in pup deaths during the first 5 days of lactation when dosing began during pregnancy and continued until weaning. There are no adequate and well-controlled studies in pregnant women; use Effevor XR during pregnancy only if clearly needed. *Nontreatogenic Effects*. Neonates exposed to Effexor XR late in the third timester have developed complications requiring prolonged hospitalization, respiratory support, and tube feeding. Complications can arise immediately upon delivery. Reports include respiratory distress, cyanosis, apmea, seizures, temperature instability, feeding difficulty, vorniting, hypoglycemia, hypotonia, hyperrofiexia, tremor, jitteriness, irritability, and constant crying. This is consistent with a direct toxic effect of SNRs or a drug discontinuation syndrome. In some cases, it is consistent with a seriest from Effexor XR, a decision should be mother. *Pediatric opuster* using or to discontinue the drug, taking into account the importance of the drug to the mother. *Pediatric use—Steptisty* and effectiveness in the pediatric pop

hypertonia, paresthesia, libido decreased, agitation, anxiety, twitching. <u>Respiratory System</u>: pharyngitis, yawn, sinusitis. Skin: sweating. <u>Special Senses</u>: abnormal vision. <u>Urogenital System</u>: ahnormal ejaculation, impotence, orgasmic dysfunction (including anorgasmia) in females. *Vital Sign Changes*: Effector XR was associated with a mean increase in pulse rate of about 2 beats/min in depression and GAD trials and a mean increase in pulse rate of 4 beats/min in SAD trials. (See WARNINGS-Sustained Hypertension). *Laboratory Changes*: Clinically relevant increases in serum cholesterol were noted in Effexor XR mean *Deserved During the Premarketing Evaluation of Effexor and Effexor* XR —N=5079. "Frequent" =vents occurring in at least 1/100 patients; "infrequent"=1/100 to 1/1000 patients. *Gedivascular system* - Frequent to cless pain substernal, chills, fever, neck pain; Infrequent" ace dema, intentional injury, malaise, moniliasis, neck rigidity, pelvic pain, photosensitivity reaction, suicide attempt, withdrawal syndrome; Rare: appendicitis, bacteremia, carcinoma, cellulitis. *Cardiovascular system* - Frequent: migraine, postural hypotension, tachycardia; Infrequent: angina pectoris, arrhythmia, extrasystoles, hypotension, peripheral vascular disorder (mainly cold feet and/or cold hands), syncope, thrombophiebitis; Rare: aortic aneurysm, arteritis, first-degree atrivoentricular block, bigeniny, bradycardia, bundle branch block, capillary fragility, cerebral ischemia, coronary artery disease, congestive heart falure, heart arrest, cardiovascular disorder (mitral valve and circulatory disturbance), muccoutaneous hemorrhage, hepyotenia, sophageal spasms, duodentitis, hematemesis, gastrointestinal ulcer, gingvitts, glossitis, cretal hemorrhage, hemorrhage, landor, <u>Digestive system</u> - Frequent: increased appetite; Infrequent: anemia, leukocytosis, leukopenia, tymphatic, antestima, hypoprotenterisis, gastrointestinal ulcer, gingvitts, glossitis, cretal hemorrhage, hemorrhage, sphageal spasms, du hypertonia, paresthesia, libido decreased, agitation, anxiety, twitching. Respiratory System: pharyngitis, yawn, Rare: akinesia, alcohol abuse, aphasia, bradykinesia, buccoglossal syndrome, cerebrovascular accident, feeling drunk, loss of consciousness, delusions, dementia, dystonia, facial paralysis, abnormal gait, Guillan-Baré syndrome, hyperchlorhydria, hypokinesia, impulse control difficuities, neuritis, nystagmus, paranoid reaction, paresis, psychotic depression, reflexes decreased, suicidal ideation, torticollis. **Resplicitory system** - Frequent: cough increased, dyspnea; Infrequent: asthma, chest congestion, epistaxis, hyperventilation, laryogismus, laryogits, penumonia, voice alteration, Rare: atelectasis, hemophysis, hypowentilation, hypoxia, laryow edema, pleurisy, pulmonary embolus, sleep apnea. <u>Skin and appendages</u>-frequent: pruntus; Infrequent: catasis, contact dematits, dry skin, eczema, skin hypertrophy, maculopapular rash, psofrais, uritoaria; Rare: erythema nodosum, exfoliative dermatitis, pustular rash, vesiculobullous rash, seborriea, skin atrophy, skin striae. <u>Special senses</u> - Frequent: abnormainy of accommodation, mydriasis, taste perversion, Infrequent: cataract, conjunctivits, corneal lesion, dipoloja, dry eyes, eye pain, hyperacusis, otitis media, parosmia, photophobia, taste loss, visual field effect; Rare: blephartis, chromatopais, aconjunctiva dedma, deafness, exophthimuso, glaucoma, retinal hemorrhage, subconjunctival hemorrhage, keratitis, labyrinthitis, miosis, papiledema, decreased pupilary reflex, otitis evertma, soleta, usita, usita, usita, prosing at noreast pain, polyuria, purura, uninary incontinence, unary relention, urinary urgency, vaginal hemorrhage; Rare: abortion, anuna, breast discharge, breast engorgenent, balanitis, breast engoment, endometrosis, feabortian, fibrocystic foreast, acidoum crystalluria, cervicitis, orchite, variangement, endometrosis, fabortian, fibrocystic breast, calcium crystalluria, cervicitis, vortiti, evaliangement, endometrosis, fabortian, fibrocystic breast, calcium crystalluria, cervicitis, vortiti, guvian apatinite, radita mencased, deep vian thromo



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Volume 10 - Number 9

I always wanted to achieve more NON I Can

Now the most prescribed atypical*

Proven efficacy

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

Trusted tolerability

To help patients stay on treatment¹⁻⁵

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

Elderly patients with dementia-related psychosis treated with atypical antipsychotic drugs are at an increased risk (1.6 to 1.7 times) of death compared to placebo (4.5% vs 2.6%, respectively). SEROQUEL is not approved for the treatment of patients with dementia-related psychosis.

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

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

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

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

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

Please see Brief Summary of Prescribing Information on adjacent page.

quetiapine fumarate 25 mg, 100 mg, 200 mg & 300 mg tablets

Redefine Success

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

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INDICATIONS AND USAGE: Bipolar Mania: SEROQUEL is indicated for the treatment of acute manic episodes

BIOLENDER AND URAGE: Bapter Medic: SERCOLE, is included for the trainers by Binking of dynamics. The office of the Charles are the company or algorized the norobest and any close is near the operation. The service, is not operating or algorized the company of the company of the company of the company. The company of the company of

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