The International Journal of Neuropsychiatric Medicine

Neuropsychiatric HIV Infection

Guest Editors-Dean G. Cruess, PhD, and Dwight L. Evans, MD

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CNS Spectrums is an Index Medicus journal.

DNMA** (Dopamine/Norepinephrine Modulating Agent) the SCIENCE behind ADHD and

3 NEW Strengths

5 mg, 15 mg, and 25 mg Capsules

Provide Even More Flexibility

ADDERALL XR was generally well tolerated in clinical trials of pediatric patients. The most common adverse events include loss of appetite, insomnia, abdominal pain, and emotional lability.

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. Administration of amphetamine may exacerbate symptoms of behavior disturbances and thought disorder in psychotic patients.

ADDERALL XR is contraindicated in patients with symptomatic cardiovascular disease, moderate to severe hypertension, hyperthyroidism and glaucoma, known hypersensitivity or idiosyncrasy to sympathomimetic amines, agitated states, history of drug abuse, or within 14 days of administration of a MAO inhibitor. The possibility of growth suppression warrants monitoring of patients receiving long-term therapy. **Prolonged use of amphetamines may lead to drug dependence**. ADDERALL XR should be prescribed with close physician supervision as part of a multimodal treatment program for ADHD.

References: 1. Kuczenski R, Segal DS, Neurochemistry of amphetamine, In: Cho AK, Segal DS, eds. Amphetamine and Its Analogs: Psychopharmocology, Toocology, and Abuse. San Diego, Calif. Academic Press; 1994;81-113. 2. Wilens TE, Spencer TJ. Pharmacology of amphetamines. In: Tarter RE, Ammerman RT, Ott PJ, eds. Handbook of Substance Abuse: Neurobehavioral Pharmacology. New York, NY: Plenum Press; 1998;501-513. 3. Grace AA. Psychostimulant actions on dopamine and limbic system function: relevance to the pathophysiology and treatment of ADHD. In: Solanto MY, Arnsten AFT, Castellanos FX, eds. Stimulant Drugs and ADHD: Basic and Clinical Neuroscience. New York, NY: Oxford University Press; 2001:334-157. 4. Plitzka SR. Comparing the effects of stimulant and non-stimulant agents on catecholamine function: implications for theories of ADHD. In: Solanto MY, Arnsten AFT, Castellanos FX, eds. Stimulant Drugs and ADHD: Basic and Clinical Neuroscience. New York, NY: Oxford University Press; 2001:332-352. 5. Frankel F, Cantwell DP, Myatt R, Feinberg DT. Do stimulants improve self-esteem in children with ADHD and peer problems? J Child Adolescer ADHD. Propression of medicated and nonmedicated attention-deficit disordered hyperactive boys. Acto Poedopsychiatr 1992;55:65-10. 7. Spencer T. Biederman J, Wilens T, Harding M, O'Donnell D, Griffin S. Pharmacotherapy of attention-deficit dyperactivity disorder across the life cycle. J Am Acod Child Adolesc Psychiatry. 1996;35:409-432. 8. ADDERALL Package insert. Shire US Inc., 2000. 9. Data on file. Shire US Inc., 2000. 10. ADDERALL XR package insert. Shire US Inc., 2002. 11. Biederman J, Greenhill LL, et al. Analog classroom assessment of SU381 for the treatment of ADHD. Poster presented at 47th Annual Meeting of the American Psychiatry. October 26, 2000; New York, NY. 13. Ambrosini PJ, Lopez FA, Chandler MC, Tulloch SJ, Michaels MA. An open-label community assessment trial of Adderall XR in pediatric ADHD. Poster presented at 155th Annual Meeting of the American Psychiatry. Adderall

* Mechanism not proven but supported by current scientific hypotheses.

Neuroscience Meetings for 2003

International Neuropsychological Society

Annual Meeting
February 5–8
Honolulu, HI

World Federation for Mental Health

27th Biennial Congress February 23–28 Melbourne, Australia

American Association for Geriatric Psychiatry

16th Annual Meeting March 1–4 Waikiki Oahu, HI

American Academy of Neurology 55th Annual Meeting

> March 29–April 5 Honolulu, HI

American Psychiatric Association 156th Annual Meeting

May 17–22 San Francisco, CA

International Society of Psychoneuroendocrinology 33rd Annual Meeting

> March 26–30 Pisa, Italy

International Psychogeriatric Association European Regional Meeting

April 1–4 Geneva, Switzerland

New Clinical Drug Evaluation Unit 43rd Annual Meeting (sponsored by National Institute of Mental Health)

> May 27–30 Boca Raton, FL

Royal College of Psychiatrists Annual General Meeting

June 30–July 3 Edinburgh, Scotland

International Psychogeriatric Association 11th International Congress

August 17–22 Chicago, IL

International Association for Suicide Prevention 22nd Annual Congress

September 10–14 Stockholm, Sweden

European College of Neuropsychopharmacology 16th Annual Congress

September 20–24 Prague, Czech Republic World Psychiatric Association International Congress: Alliances for Mental Health

October 1–4 Caracas, Venezuela

American Academy of Child & Adolescent Psychiatry 50th Annual Meeting

October 14–19 Miami, FL

American Neurological
Association
128th Annual Meeting

October 19–22 San Francisco, CA

American Academy of Addiction Psychiatry 14th Annual Meeting and Symposium

December 4–7 New Orleans, LA

Next Month in CNS SPECTRUMS

Sleep Disorders

Melatonin and Jet Lag Syndrome: Experimental Model and Clinical Implications Narcolepsy: Differential Diagnosis or Etiology in Some Cases of Bipolar Disorder and Schizophrenia

Psychological Status and Levels of Sleepiness-Alertness Among Patients With Insomnia

Obstructive Sleep Apnea and Depression



5 mg, 10 mg, 15 mg, 20 mg, 25 mg, 30 mg CAPSULES

(Mixed Salts of a Single-Entity Amphetamine Product)

Lextroamphetamine Sulfate Dextroamphetamine Saccharate
Amphetamine Aspartate Monohydrate: Amphetamine Sulfate

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-THERAPEUTIC USE OR DISTRIBUTION TO OTHERS AND THE DRUGS SHOULD BE PRESCRIBED OR DISPENSED SPARINGLY

ADDERALL XRTM is indicated for the treatment of Attention Deficit Hyperactivity Disorder (ADHD). The efficacy of ADDERALL XRTM in the treatment of ADHD was established on the basis of two controlled trials of children aged 6 to 12 who met DSM-IV criteria for ADHD, 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 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 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.

PRECAUTIONS

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

Hyperfension and other Cardiovascular Conditions: Caution is to be exercised in prescribing amphetamine for patients with even mild hyperfension (see CONTRAINDICATIONS). Blood pressure and pulse should be monitored at appropriate intervals in patients taking ADDERALL XRTM, especially patients with hyperfension.

Tics: Amphetamines have been reported to exacerbate motor and phonic tics and Tourette's syndrome in children and their families should precede use of stimulant medications.

of stimulant medications.

Intermition 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—Gastrointestinal acidifying agents (guanethidine, reserpine, glutamic acid HCl, ascorbic acid, etc.) lower absorption of amphetamines.

Urinary acidifying agents—These agents (ammonium chloride, sodium acid phosphate, etc.) increase the concentration of the ionized 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.

Adrenergic blockers—Adrenergic blockers are inhibited by amphetamines.

Alkalinizing agents—Gastrointestinal alkalinizing agents (sodium bicarbonate, etc.) increase absorption of amphetamines. Co-administration of ADDERALL XR™ and gastrointestinal alkalinizing agents, such as antacids, should be avoided. Urinary alkalinizing agents (acetazolamide, some thiazides) 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 may enhance the activity of tricvclic antidepressants or

Antidepressants, tricyclic—Amphetamines may enhance the activity of tricyclic antidepressants or sympathomimetic agents; d-amphetamine with desipramine or protriptyline and possibly other tricyclics cause striking and sustained increases in the concentration of d-amphetamine in the brain, cardiovascular

cause straining and sustained incleases in the concentration of champitetamine in the brain, cardiovascular effects can be potentiated.

MAO inhibitors—MAOI antidepressants, as well as a metabolite of furazolidone, slow amphetamine metabolism. This slowing potentiates amphetamines, increasing their effect on the release of norepinephrine and other monoamines from adrenergic nerve endings; this can cause headaches and other signs of hypertensive crisis. A variety of toxic neurological effects and malignant hyperpyrexia can occur, sometimes with fatal results.

Antihistamines-Amphetamines may counteract the sedative effect of antihistamines

Antinistamines—Ampletamines may counteract the secative effect of antinistamines.

Antihippertensives—Ampletamines may antagonize the hypotensive effects of antihypertensives.

Chlorpromazine—Chlorpromazine blocks dopamine and norepinephrine receptors, thus inhibiting the central stimulant effects of ampletamines, and can be used to treat amphetamine poisoning.

Ethosuximide—Amphetamines may delay intestinal absorption of ethosuximide.

Haloperidol—Haloperidol blocks dopamine receptors, thus inhibiting the central stimulant effects of amphetamines.

Lithium carbonate...The anorectic and stimulatory effects of amphetamines may be inhibited by

Meperidine—Amphetamines potentiate the analgesic effect of meperidine

Meperanne—Antiplearnines potentiate the analysis effect of ineperannes
Methenamine therapy—Uniary excretion of amphetamines is increased, and efficacy is reduced, by acidifying agents used in methenamine therapy.

Norepinephrine—Amphetamines enhance the adrenergic effect of norepinephrine.

Phenobarbital—Amphetamines may delay intestinal absorption of phenobarbital; co-administration of phenobarbital may produce a synergistic anticonvulsant action.

Phenyloin—Amphetamines may delay intestinal absorption of phenyloin; co-administration of phenyloin—Special Company of the produce a synergistic anticonvulsant action.

Problems And the control of the system of the control of the system of the control of the contro

Veratrum alkaloids—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/Mutagenesis and Impairment of Fertility: No evidence of carcinogenicity was found in studies in which d.l-amphetamine (enantiomer ratio of 1:1) was administered to mice and rats in the diet for 2 years at doses of up to 30 mg/kg/day in male mice, 9 mg/kg/day in female mice, and 5 mg/kg/day in male and female rats. These doses are approximately 2.4, 1.5, and 0.8 times, respectively, the maximum recommended human dose of 30 mg/day on a mg/m² body surface area basis.

Amphetamine, in the enantiomer ratio present in ADDEFRALL® (immediate-release)(d-10 l- 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. d.l-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, and equivocal response in the Ames test. Amphetamine, in the enantiomer ratio present in ADDERALL® (immediate-release)(d-tol-ratio of 3:1), did not adversely affect fertility or early embryonic development in the rat at doses of up to 20 mg/kg/day (approximately 5 times the maximum recommended human dose of 30 mg/day on a mg/m² body surface area basis).

area basis).
Pregnancy: Pregnancy Category C. Amphetamine, in the enantiomer ratio present in ADDERALL® (d- to I- ratio of 3:1), had no apparent effects on embryofetal morphological development or survival when orally administered to pregnant rats and rabbits throughout the period of organogenesis at doses of up to and 16 mg/kg/day, respectively. These doses are approximately 1.5 and 8 times, respectively, the maximum recommended human dose of 30 mg/day on a mg/m³ body surface area basis. Fetal malformations and death have been reported in mice following parenteral administration of 6-amphetamine doses of 50 mg/kg/day approximately 6 times the maximum recommended human dose of 30 mg/day on a mg/m³ basis) or greater to pregnant animals. Administration of these doses was also associated with severe maternal toxicity. A number of studies in rodents indicate that prenatal or early postnatal exposure to amphetamine (d- or d,I-), at doses similar to those used clinically, can result in long-term neurochemical and behavioral alterations. Reported behavioral effects include learning and memory deficits, altered locomotor activity, and changes in sexual function

Reported behavioral effects include learning and internory deficits, aftered tocombotor activity, and changes in sexual function.

There are no adequate and well-controlled studies in pregnant women. There has been one report of severe congenital bony deformity, tracheo-esophageal fistula, and anal atresia (vater association) in a baby born to woman who took dextroamphetamine sulfate with lovastatin during the first trimester of pregnancy. Amphetamines should be used during pregnancy only if the potential benefit justifies the potential risk

Nonteratogenic Effects: Infants born to mothers dependent on amphetamines have an increased risk of premature delivery and low birth weight. Also, these infants may experience symptoms of withdrawal as demonstrated by dysphoria, including agitation, and significant lassitude.

demonstrated by dysphoria, including agitation, and significant lassitude.

Vagage in Nursing Mothers: Amphetamines are excreted in human milk. Mothers taking amphetamines should be advised to refrain from nursing.

Pediatric Use: ADDERALL XR™ is indicated for use in children 6 years of age and older.

Use in Children Under Six Years of Age: Effects of ADDERALL XR™ in 3-5 year olds have not been studied. Long-term effects of amphetamines in children have not been well established. Amphetamines are not recommended for use in children under 3 years of age.

Geriatric Use: ADDERALL XR™ has not been studied in the geriatric population.

ADVERSE EVENTS

CII Rx Only

ADVERSE EVENTS

The premarketing development program for ADDERALL XR™ included exposures in a total of 695 participants in clinical trials (615 patients, 70 healthy adult subjects). These participants received ADDERALL XR™ at daily doses up to 30 mg. The 615 patients (ages 6 to 12) were evaluated in two controlled clinical studies, one open-label clinical study, and one single-dose clinical pharmacology study (N=20). Safety data on all patients are included in the discussion that follows. Adverse reactions were assessed by collecting adverse events, results of physical examinations, vital signs, weights, laboratory analyses, and ECGs.

Adverse events during exposure were obtained primarily by general inquirry 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 Ireatment: In two placebo-controlled studies of up to 5 weeks duration, 2.4% (10/425) of ADDERALL XR™ treated patients discontinuated 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™ for 12 months or more.

Adverse events associated verified in the promoths or more.

Adverse event % of patients discontinuing (N=595) Anorexia (loss of appetite) Insomnia Weight loss Emotional lability 1.0 0.7

Depression

Adverse events occurring in a controlled trial: Adverse events reported in a 3-week clinical trial of pediatric patients treated with ADDERALL XR™ or placebo are presented in the table 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.

Table 1 Adverse Events Reported by More Than 1% of Patients Receiving ADDERALL XR™ with Higher Incidence Than on Placebo in a 584 Patient Clinical Study

Body System	Preferred Term	ADDERALL XR™ (N=374)	Placebo (N=210)
General	Abdominal Pain (stomachache)	14%	10%
	Accidental Injury	3%	2%
	Asthenia (fatigue)	2%	0%
	Fever	5%	2%
	Infection	4%	2%
	Viral Infection	2%	0%
Digestive System	Loss of Appetite	22%	2%
	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%

The following adverse reactions have been associated with amphetamine use

Cardiovascular: Palpitations, tachycardia, elevation of blood pressure. There have been isolated reports of cardiomyopathy associated with chronic ampletamine use. Central Nervous System: Psychotic episodes at recommended doses, overstimulation, restlessness, dizziness,

insomnia, euphoria, dyskinesia, dysphoria, tremor, headache, exacerbation of motor and phonic tics and Tourette's syndrome.

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

ADDERALL XR™ is a Schedule II controlled substance.

ADDEFALC AN "Is a Scheduler to Unifolder Soutsaince. 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 time 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

Individual patient response to amphetamines varies widely. Toxic symptoms may occur idiosyncratically at

Individual patient response to amprehensive theorems. Symptoms: Manifestations of acute overdosage with amphetamines include restlessness, tremor, hyperreflexia, rapid respiration, confusion, assaultiveness, hallucinations, panic states, hyperpyrexia and rhabdomyolysis. Fatigue and depression usually follow the central nervous system stimulation. Cardiovascular effects include arrhythmias, hypertension or hypotension and circulatory collapse. Gastrointestinal symptoms include nausea, vomiting, diarrhea, and abdominal cramps. Fatal poisoning is usually preceded by convulsions

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 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. Actification 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. 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 by DSM Pharmaceuticals Inc., Greenville, North Carolina 27834. Distributed and marketed by Shire US Inc., Florence, KY 41042

For more information call 1-800-536-7878 or visit www.adderallxr.com

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(rev. 06/2002)





Time-tested **ADDERALL XR™**for all-day improved performance!**

Dopamine (DA) and norepinephrine (NE) are believed to play critical roles in the pathology and treatment of ADHD.¹⁴

ADDERALL XR is thought to increase the levels of both DA and NE in the synapse. ⁴

ADDERALL XR provides unparalleled dosing flexibility with significant all-day improvement in 9-12:

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Make patient-friendly ADDERALL XR your ADHD treatment option of choice!

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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

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Please see references to left and a brief summary of prescribing

information on adjacent page.

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June 2002

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The International Journal of Neuropsychiatric Medicine

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

BRIEF SUMMARY. See package insert for full prescribing information. CONTRAINDICATIONS: Hypersensitivity to ventafavine hydrochloride or to any excipients in the formulation. Concomitant use in patients taking monoamine oxidase inhibitors (MAOIs) is contraindicated. WARNINGS: Potential for Interaction with Monoamine Oxidase Inhibitors—Adverse reactions, some serious, have been reported in patients who were recently discontinued from an MAOI and started on venlafaxine, or who recently had venlafaxine therapy discontinued prior to from an MAOI and started on venlafaxine, or who recently had venlafaxine therapy discontinued prior to initiation of an MAOI. These reactions included tremor, myoclonus, diaphoresis, nausea, vomiting, flushing, dizziness, hyperthermia with features resembling neuroleptic malignant syndrome, seizures, and death. It is recommended that Effexor XR not be used in combination with an MAOI, or within at least 14 days of discontinuing treatment with an MAOI. Based on the half-life of venlafaxine, at least 7 days should be allowed after stopping venlafaxine before starting an MAOI. Sustained Hypertension—Venlafaxine is associated with sustained increases in blood pressure (BP) in some patients. Experience with immediate release venlafaxine showed that sustained hypertension was dose related. It is recommended that patients receiving Effexor XR have regular monitoring of BP. For patients who experience a sustained increase in BP either dose reduction or discontinuation behalf be provided by experience as sustained increase in BP either dose reduction or discontinuation. should be considered. PRECAUTIONS: General—*insommia and Nervousness*: Treatment dose reduction in discommina and nervousness: Treatment-emergent insommia and nervousness have been reported. Insommia and nervousness each led to drug discontinuation in 0.9% of the patients in Phase 3 depression studies. In Phase 3 Generalized Anxiety Disorder (GAD) trials, insommia and nervousness led to drug discontinuation in 3% and 2%, respectively, of patients. Changes in Appetite/Weight: Treatment-emergent anorexia has been reported. A loss of 5% or more of body weight occurred in 7% of patients in placebo-controlled anorexa has been reported. A loss or 5% of more of body weight occurred in 7% of patients in placebo-controlled depression trials. A loss of 7% or more of body weight occurred in 3% of patients in placebo-controlled Trials. The safety and efficacy of venlafaxine therapy 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. Activation of Mania/Hypomaniar. Mania or hypomaniah 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 horrores. secretion (SIADH) may occur with venlafaxine. This should be taken into consideration in patients who are, for example, volume-depleted, elderly, or taking diuretics. *Mydriasis*: Mydriasis has been reported; therefore patients with raised intraocular pressure or at risk of acute narrow-angle glaucoma should be monitored. Soizures: In all premarketing depression trials with Effexor, seizures were reported in 0.3% of venlafaxine-treated patients. Use Effexor XR cautiously in patients with a history of seizures. Discontinue in any patient who develops seizures. Abnormal Bleeding: There have been reports of abnormal bleeding (most commonly ecchymosis). Suicide: The possibility of a suicide attempt is inherent in depression and may persist until significant remission occurs. Closely supervise high-risk patients during initial drug therapy. Prescriptions for Effexor XR should be written for the smallest quantity of capsules consistent with good patient management to reduce the risk of overdose. The same precautions should be observed when treat-ing patients with GAD. Use in Patients With Concomitant Illness: Use Effector 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 unstable heart disease. In short-term depression studies electrocardiographic changes in corrected QT interval (QTc) showed a mean increase of 4.7 msec, and the mean change from baseline heart rate was 4 beats per minute. In GAD studies, mean changes in QTc did not differ significantly from placebo and the mean change from baseline heart rate was 3 beats per minute. In a flexible-dose study with immediate release Effexor (mean dose >300 mg/day), patients had a mean increase in heart rate of 8.5 beats per minute. Caution should be exercised in patients whose underlying medical conditions might be compromised by increases in heart rate (e.g., patients with hyperthyroidism, heart failure, or recent MI). In patients with renal impairment or cirrhosis of the liver, the clearances of ventafaxine and its active metabolites were decreased, thus prolonging the elimination half-lives. A lower dose may be necessary; use with caution in such patients. Information for Patients—Caution patients about operating hazardous machinery, including automobiles, until they are reasonably sure that venifativine does not adversely affect their abilities. Tell patients to avoid alcohol while taking Effexor XR and to notify their physician 1) if they become pregnant or intend to become pregnant during therapy, or if they are nursing; 2) about other prescription or over-the-counter drugs, including herbal preparations, they are taking or plan to take; 3) if they develop a rash, hives, or related allergic phenomena. Laboratory Tests—There are no specific laboratory tests recommended. Drug Interactions—Alcohol: A single dose of ethanol had no effect on the pharmacokinetics of venlafaxine or 0-desmethylvenlafaxine (ODV) when venlafaxine was adminis-

tered and venlafaxine did not exaggerate the psychomotor and psychometric effects induced by ethanol. *Cimetidine*: Use with caution when administering venlafaxine with cimetidine to patients with pre-existing hypertension or hepatic dysfunction, and the elderly. Diazenam: A single dose of diazenam did not appear to affect the pharmacokinetics of either venlafaxine or

venlafaxine hci EFFEXOR® XR EXTENDED
RELEASE
CAPSULES

ODV. Ventafaxine did not have any effect on the pharmacokinetics of diazepam or its active metabolite, desmethyldiazepam, or affect the psychomotor and psychometric effects induced by diazepan or las advert reasoning clearlest year of the phylomother of the position and psycholic release interest indicated by diazepan. Haloperidol: Venlatavine decreased total oral-dose clearance of haloperidol which resulted in a 70% increase in haloperidol AUC. The haloperidol C_{max} increased 88% when coadministered with venlafavine, but the haloperidol allmination half-life was unchanged. Lithium: A single dose of lithium ind ind not appear of affect the pharmacokinetics of either venlafavine or ODV. Venlafavine had no effect on the pharmacokinetics of iithium. Drugs Inhibiting Cytochrome P4502D6 Metabolism: Venlafaxine is metabolized to its active metabolite, ODV, via cytochrome P4502D6. Drugs inhibiting this isoenzyme have the potential to increase plasma concentrations of ventafaxine and decrease concentrations of ODV. Since the composite plasma levels of ventafaxine and ODV are essentially unchanged in CYP2D6 poor metabolizers, no dosage adjustment is required when ventafaxine is coadministered with a CYP2D6 inhibitor. The concomitant use of ventafaxine with a drug treatment(s) that potentially inhibits both CYP2D6 and CYP3A4, the primary metabolizing enzymes for ventafaxine, has not been studied. Caution initious both CF220 and CF334, the primary metabolizing enzymes for ventacionine, has not been studied. Audition is advised should a patient's therapy include ventafaxine and any agentis) that produce simultaneous inhibition of these two enzyme systems. *Drugs Metabolized by Cytochrome P450 Isoenzymes*: Studies indicate that ventafaxine is a relatively weak inhibitor of CYP206. Ventafaxine did not inhibit CYP1A2 and CYP3A4, CYP2C9 (in vitro), or CYP2C19. Impramine: Ventafaxine did not affect the pharmacokinetics of imipramine and 2-OH-imipramine However, designamine AUC, C_{miss} and C_{min} increased by about 35% in the presence of ventafaxine. The 2-OH-designamine AUC's increased by 2.5-4.5 fold. Imipramine did not affect the pharmacokinetics of ventafaxine and ODV. *Risperidone*: Venlafaxine slightly inhibited the CYP2D6-mediated metabolism of risperidone to its active metabolite, 9-hydroxy-risperidone, resulting in an approximate 32% increase in risperidone AUC. Venlafaxine coadministration did not insperione, resource in an approximate 32-w inclease in Insperione Auc. verinataine development significantly after the pharmacokinetic profile of the total active moiety (risperione plus 9-hydroxyrisperidone). Inclinavir: In a study of 9 healthy volunteers, venlafaxine resulted in a 28% decrease in the AUC of a single dose of indinavir and a 38% decrease in indinavir of consecutions and ODV. MAOIs: See "Contraindications" and "Warnings." CNS-Active Drugs: Caution is advised if the concomitant adminis-The Active Drugs: See Continuation and Warnings. Lines-Active Drugs: Caution is solvesed in the Concommant administration of venidariane and CNS-active drugs is required. 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 mydm' basis. Mutagenesis: Venidataxine and ODV were not mutagenic in the Ames reverse mutation assay in Salmonella bacteria or the Chinese hamster ovaryHcPRT mammalian cell forward gene mutation assay. Venidataxine was not clastogenic in several assays. ODV elicited a clastogenic responses in the label of the processor of the Control of to war gere initiation assay, when a several assays, Dov elected a castogenic response in the in vivo chromosomal abernation assay in rat bore marrow. Impairment of Fartility: 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, infig/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 stillborn pups, and an increase in pup deaths during the first 5 days of lactation when dosing began during pregnancy and continued until wearing. There are no adequate and well-controlled stills in recease in the public intervent i studies in pregnant women; use Effects. If venlafaxine is used until or shortly before birth, discontinuation effects in the newborn should be considered. **Labor**, Delivery, Nursing—The effect on labor and delivery in humans is unknown. Venlafaxine and ODV have been reported to be excreted in human milk. Because of the potential for serious adverse reactions in nursing infants from Effexor XR, a decision should be made whether to discontinue nursing or to discontinue the drug, taking into account the importance of the drug to the mother. Pediatric Use—Safety and effectiveness in pediatric patients have not been established. Gentatric Use—Approximately 4% and 6% of Effect XR-treated patients in placebo-controlled premarketing depression and GAD trials, respectively, were 65 years of age or over. No overall differences in effectiveness or seting uppression and setu trials, respectively, were do years or age of over, no overall christments in encurreness or safety were observed between geriatric patients and younger patients. However, greater sensitivity of some older individuals cannot be ruled out. Several cases of hyponatremia and syndrome of inappropriate antidiuretic hormone secretion (SIADH) have been reported, usually in the elderly. ADVERSE REACTIONS: Associated with Discontinuation of Treatment—The most common events leading to discontinuation in depression and GAD trials included: nausea, anorexia, dry mouth, dizziness, insomnia, somnolence, hypertension, diarrhea, paresthesia, tremor, abnormal (mostly blurred) vision, abnormal (mostly delayed) ejaculation, asthenia, vomiting, nervousness, and sweating.

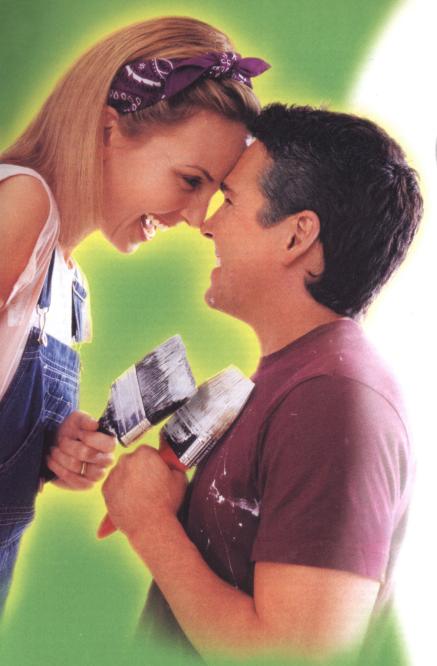
Commonly Observed Adverse Events in Controlled Clinical Trials for Depression and GAD—Body as a Whole:

asthenia. Cardiovascular: vasodilatation, hypertension. Digestive: nausea, constipation, anorexia, vomiting, flatulence. Metabolic/Nutritional: weight loss. Nervous System: dizziness, somnolence, insomnia, dry mouth, nervousness, abnormal dreams, tremor, depression, hypertonia, paresthesia, libido decreased, agitation. Respiratory System: pharyngitis, yawn. Skin: sweating. Special Senses: abnormal vision. <u>Urogenital System:</u> abnormal ejaculation, impotence, anorgasmia (female). *Vital Sign Changes*: Effexor XR was associated with a mean increase in pulse rate of about 2 beats/min. (See the "Sustained Hypertension" section of "Warnings.") Laboratory Changes: Effexor XR treatment for up to 12 weeks in premarketing placebo-controlled depression trials was associated with a mean final on-therapy increase in serum cholesterol concentration of approximately 1.5 mg/dL. Effexor XR treatment for up to 8 weeks and up to 6 months in premarketing placebo-controlled GAD trials was associated with mean final on-therapy increases in serum cholesterol concentration of approximately 1.0 mg/dL and 2.3 mg/dL, respectively. Patients treated with Effexor tablets (the immediate-release form of venlafaxine) for at least 3 months in placebo-controlled 12-month extension trials had a mean final on-therapy increase in total cholesterol of 9.1 mg/dt. This increase was duration dependent over the 12-month study period and tended to be greater with higher doses. An increase in serum cholesterol from baseline by ≥50 mg/dL and to values >260 mg/dL, at any time after baseline, has been recorded in 8.1% of patients. EGG Changes: See the "Use in Patients with Concomitant Illnesses" section of PRECAUTIONS. Other 6.1% of parients. Ecto changes: See the Use in Takents with concomitant inflesses section of Pre-Quolitus. Supplementating Evaluation of Effexor and Effexor XR—N=5079. "Frequent" events occurring in at least 1/100 patients; "infrequent" = 1/100 to 1/1000 patients; "rare" = fewer than 1/1000 patients. Body as a whole Frequent chest pain substemal, chillis, fever, neck pain, literaquent: face edema, intentional injuranialise, monitiasis, neck rigidity, pelvic pain, photosensitivity reaction, suicide attempt, withdrawal syndrome; flare; appendicitis, bacteremia, carcinoma, cellutitis. Cardiovasquilar system - Frequent: migraine, postural hypotension. tachycardia; Infrequent: angina pectoris, arrhythmia, extrasystoles, hypotension, peripheral vascular disorder (mainly cold feet and/or cold hands), syncope, thrombophlebitis; Rare: aortic aneurysm, arteritis, first-degree atrioventricular block, bigeminy, bradycardia, bundle branch block, capillary fragility, cerébral ischemia, coronary artery disease, congestive heart failure, heart arrest, cardiovascular disorder (mitral valve and circulatory disturbance), mucocutaneous hemorrhage, myocardial infarct, pallor. Diesetive system - Frequent encetation, increased appetite, infrequent brusism, colitis, dysphagia, tongue edema, esophagitis, gastroenteritis, gastrointestinal ulcer, gingivitis, glossic rectal hemorrhage, hemorrhoids, melena, oral monitiasis, stomatitis, month ulceration; Rare: chellitis, cholecystitis, cholelithiasis, esophageal spasms, duodentitis, hematemesis, gastrointestinal hemorrhage, gum hemorrhage, hepatitis, lleitis, jaundice, intestinal obstruction, parotitis, proctitis, increased salivation, soft stools, tongue discoloration. <u>Endocrine system</u> - Rare: goiter, hyperthyroidism, hypothyroidism, thyroid nodule, thyroiditis. <u>Hemic and lymphatic system</u> - Frequent: ecthymosis; Infrequent: anemia, leukocytosis, leukopenia, lymphadenopathy, thrombocytomia, thrombocytopenia; Rare: basophilia, bleeding time increased, cyanosis, eosinophilia, lymphocytosis, multiple myeloma, purpura. Metabolic and nutritional - Frequent: edema, weight gain; infrequent: alkaline phosphatase increased, dehydration, hypercholesteremia, hyperdycemia, hyperflyemia, hyperdycation, hypercholesteremia, hyperglycemia, hyperflyemia, hypokalemia, SGOT increased, SGPT increased, thirst. Rare: alcohol intolerance, bilirubinemia, BUN increased, creatinine increased, diabetes mellitus, glycosuria, gout, healing abnormal, hemochromatosis, hypercalichuria, hyperklemia, hyperphosphatemia, hyperuncemia, hypocholesteremia, abnormal, hemochromatosis, hypercalichuria, hyperklemia, hyperphosphatemia, hyperuncemia, hypercalichuria, hyperklemia, hyperphosphatemia, hyperuncemia, hypoglycemia, hyponatremia, hypophosphatemia, hypoglycemia, hypoglycemia, hypophosphatemia, hypophosph Infrequent: animesa, curcumoral paresthesia, CNs Stimulation, epiphoria, hallucinations, hostility, hyperesthesia, hyperinesia, protonia, hallucinations, hostility, hyperesthesia, hyperinesia, hypotonia, hallucinations, hostility, hyperesthesia, hyperinesia, hypotonia, incoordination, manic reaction, myoclonus, neuralgia, neuropathy, psychosis, seizure, abnormal speech, stupor, twitching; Rare: akathisia, akinesia, alcohol abuse, aphasia, bradykinesia, buccoglossal syndrome, cerebrovascular accident, loss of consciousness, delusions, dementia, dystonia, facial paralysis, abnormal gait, Guillain-Barre Syndrome, hyperchlorhydria, hypokinesia, impulse control difficulties, libido increased, neuritis, nystagmus, paranoid reaction, paresis, psychotic depression, reflexes decreased, reflexes increased, suicidal ideation, torticollis. paranior reaction, paresis, psychotic depression, renexes decreased, renexes increased, suicidai ideation, toricolis Respiratory system - Frequent: cough increased, dyspinea; Infrequent asthma, chest congestion, epistavis, hyper-ventilation, laryngismus, laryngitis, pneumonia, voice alteration; Rare: atelectasis, hemoptysis, hypoventilation, hypoxia, larynx edema, pleurisy, pulmonary embolus, sleep apinea. Skin. and appendages - Frequent: rash, puriture, infrequent: acne, alopecia, brittle nails, contact dermattis, dry skin, eczema, skin hypertrophy, maculopapular rash, psoriasis, urticaria; Rare: erythema nodosum, exfoliative describiti, bidenostic dermattis but discontinea.

dermatitis, lichenoid dermatitis, hair discoloration, skin discoloration, furunculosis, hirsutism, leukoderma, petechial rash, pustular rash, vesiculobullous rash, seborrhea, skin atrophy, skin striae. **Special senses** - Frequent: abnormality of accommodation, mydriasis, taste perversion; Infrequent: cataract, conjunctivitis, comeal 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, kerattis, labyrinthitis, miosis, papilledema, decreased pupillary reflex, otitis externa, scleritis, uveitis. <u>Urogenital system</u> - Frequent dysuria, metrorrhagia," prostatic disorder (prostatitis and enlarged prostate), "urination impaired, vaginitis"; Infrequent albuminuria, amenorihea, "cystitis, hematuria, leukorrhea," menorrhaqia, "nocturia, bladder pain, breast pain, polyuria, pyria, urinary incontinence, urinary retention, urinary urgency, vaginal hemorrhage"; Pare: abortion, "anuria, breast discharge, breast engogement, balanitis," breast enlargement, endometriosis," female lactation, "fibrocystic breast, calcium crystalluria, cervicitis," orchitis, "ovarian enalgement, encongresses, reinale actación, intro-bysio tressa, calción de yastanta, carentas, ortanis, vorante, cyst, prolonged erection, "gynecomastía (male)," hypomenorrhea, "kidney calculus, kidney pain, kidney function abnormal, mastitis, menopause," pyelonephritis, oliguria, salpingitis," urolithiasis, uterine hemorrhage, "uterine spasm." ("Based on the number of men and women as appropriate). Postmarketing Reports: agranulocytosis, anaphylaxis, aplastic anemia, catatonia, congenitad anomalies, CPK increased, deep vein thrombophilebitis, delirium, EKG abnormalities such as QT prolongation; cardiac arrhythmias including atrial fibrillation, supraventricular tachycardia, ventricular extrasystoles, and rare reports of ventricular fibrillation and ventricular tachycardia, including torsades de venucual extraospines, and rare reports or venucual information and ventratural activities including torsaues pointes; epidermal necrosis/Stevens-Johnson Syndrome, erythema multiforme, extrapyramidal symptoms (including tardive dyskinesia), hemorrhage (including eye and gastrointestinal bleeding), hepatic events (including GGT elevation; abnormalities of unspecified liver function tests; liver damage, necrosis, or failure; and fatty liver), involuntary movements, LDH increased, neuroleptic malignant syndrome-like events (including a case of a 10-year-old who may have ments, CDM increases, neuroleptic maigrain systocome-like events (including a case of a 10-year-do who may true been taking methylphenialate, was treated and recovered, neuropenia, night sweats, pancreatists, pancytopenia, panic, prolactin increased, pulmonary eosinophilia, renal failure, serotonin syndrome, shock-like electrical sensations (in some cases, subsequent to the discontinuation of venlafaxine or tapering of dose), and syndrome of inappropriate artidiuretic hormone secretion (usually in the elderly). There have been reports of elevated clozapine levels that were temporally associated with adverse events, including seizures, following the addition of venlafaxine. There have been reports of increases in prothrombin time, partial thromboglastin time, or INR when venlafaxine was given to patients reports of increases in profusion in the parallal inclindoplastic time, or link when vehiclarity was given by patient receiving warfarin therapy. **DRUG ABUSE AND DEPENDENCE**: Effects XR is not a controlled substance. Evaluate patients carefully for history of drug abuse and observe such patients closely for signs of misuse or abuse. **OVER-DOSAGE**: Electrocardiogram changes (e.g., prolongation of QT interval, bundle branch block, QRS prolongation), sinus and ventricular tachycardia, bradycardia, hypotension, altered level of consciousness (ranging from somnolence to coma), seizures, vertigo, and death have been reported. Treatment should consist of those general measures employed in the management of overdosage with any antidepressant. Ensure an adequate airway, oxygenation and ventilation. Monitor cardiac rhythm and vital signs. General supportive and symptomatic measures are also recommended. Induction of emesis is not recommended. Gastric lavage with a large bore crogastric tube with appropriate airway protection, if needed, may be indicated if performed soon after ingestion or in symptomatic patients. Activated arrivay protection, if needed, may be indicated if performed soon after ingestion or in symptomatic patients. Advivated charcoal should be administered. Due to the large volume of distribution of this drug, forced duriess, largis, hemoperfusion, and exchange transfusion are unlikely to be of benefit. No specific antidotes for veniafaxine are known. In managing overdosage, consider the possibility of multiple drug involvement. The physician should consider contacting a poison control center are listed in the Physicians' Desk Reference' (PDR), DOSAGE AND ADMINISTRATION: Please consult full prescribing information of the transfer of the properties and properties of the pro dizziness, dry mouth, dysphoric mood, fasciculation, fatigue, headaches, hypomania, insomnia, nausea, nervousness, nightmares, sensory disturbances (including shock-like electrical sensations), somnolence, sweating, tremor, vertigo and vomiting. Switching Patients To or From a Monoamine Oxidase Inhibitor—At least 14 days should elapse between discontinuation of an MAOI and initiation of therapy with Effexor XR. In addition, at least 7 days should be allowed after stopping Effexor XR before starting an MAOI (see "Contraindications" and "Warnings"). This brief summary is based on the circular CI 7509-4, revised April 11, 2002.





Something **extra**

...approximately

1/3 more

patients got
their life back

In a pooled analysis of over 2,000 patients, against leading SSRIs (fluoxetine, paroxetine, fluvoxamine),

FFFEXOR XR/FFFEXOR

offered something extra—

in depression, remission* of symptoms in approximately 1/3 more patients.¹

> Remission of symptoms is a first step on the road to recovery.²

*Remission is defined as minimal or no symptoms (HAM-D ≤7).¹

Indicated in Depression and Generalized Anxiety Disorder

VENLAFAXINE HCI EFFEXOR® XR EXTERNIER CAPSU

EFFEXOR XR is contraindicated in patients taking monoamine oxidase inhibitors (MAOIs). EFFEXOR XR should not be used in combination with an MAOI or within at least 14 days of discontinuing treatment with an MAOI; at least 7 days should be allowed after stopping EFFEXOR XR before starting an MAOI.

The most common adverse events reported in EFFEXOR XR placebo-controlled depression trials (incidence ≥10% and ≥2× that of placebo) were nausea, dizziness, somnolence, delayed ejaculation, sweating, dry mouth, and nervousness; and in GAD trials were nausea, dry mouth, insomnia, delayed ejaculation, anorexia, constipation, nervousness, and sweating. Treatment with venlafaxine is associated with sustained increases in blood pressure (BP) in some patients. Three percent of EFFEXOR XR patients in depression studies (doses of 75 to 375 mg/day) and 0.5% in GAD studies (doses of 37.5 to 225 mg/day) had sustained BP elevations. Less than 1% discontinued treatment because of elevated BP. Regular BP monitoring is recommended.

Patients should not be abruptly discontinued from antidepressant medication, including EFFEXOR XR. See the Dosage and Administration section of the Prescribing Information.

References: 1. Thase ME, Entsuah AR, Rudolph RL. Remission rates during treatment with venlafaxine or selective serotonin reuptake inhibitors. *Br J Psychiatry*. 2001;178:234-241.

2. Kupfer DJ. Long-term treatment of depression. *J Clin Psychiatry*. 1991;52(5, suppl):28-34. *Please see brief summary of Prescribing Information on adjacent page*.

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CNS Spectrums (ISSN 1092-8529)

is published monthly by MBL Communications, Inc. 333 Hudson Street, 7th Floor New York, NY 10013

One year subscription rates: domestic \$120; foreign \$185; in-training \$75. For subscriptions: Fax 212-328-0600 or visit our Web site: www.cnsspectrums.com

Postmaster: Send address changes to CNS Spectrums c/o PPS Medical Marketing Group 264 Passaic Avenue Fairfield, NJ 07004-2595

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First-line treatment for schizophrenia

Efficacy You Look for in an Atypical Antipsychotic'

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- 5 years of clinical experience²
- Over 12.5 million prescriptions written²

The most common adverse events associated with the use of SEROQUEL are dizziness (10%), postural hypotension (7%), dry mouth (7%), and dyspepsia (6%). The majority of adverse events are mild or moderate.

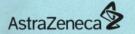
In 3- to 6-week, placebo-controlled trials, the incidence of somnolence was 18% with SEROQUEL vs 11% with placebo.

As with all antipsychotic medications, prescribing should be consistent with the need to minimize the risk of tardive dyskinesia, seizures, and orthostatic hypotension.

References: 1. Prescribing Information for SEROQUEL® (quetiapine fumarate), Rev 1/01, AstraZeneca Pharmaceuticals LP, Wilmington, Delaware. 2. Data on file, IMS data, AstraZeneca Pharmaceuticals LP, Wilmington, Delaware.



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SEROQUEL is indicated for the treatment of schizophrenia.
The efficacy of SEROQUEL in schizophrenia was established in short-term (6-week) controlled trials of schizophrenia incipatients (See CLINICAL PHARMACOLOGY).
The effectiveness of SEROQUEL in long-term use, that is, for more than 6 weeks, as not been systematically evaluated in controlled trials. Therefore, the physician who elects to use SEROQUEL for extended periods should periodically re-evaluate the long-term usettiness of the drug for the individual patient.

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

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

WARNINGS

SPROUDL: Is contraindicated in individuals with a known hypersensitivity to this medication or any of its ingredients.

WARNINGS

Neurolaptic Mailgnant Syndrome: (NMS) A potentially fatal symptom complex sometimes reterred to as Neuroleptic Mailgnant Syndrome (NMS) fast been reported in association with administration of antisysychotic drugs. Two possible cases of NMS [22387 (1-1%) have been reported in clinical trials with SEROULE. Clinical manifestations of NMS are hyperprexia, muscle ngigity, altered mental status, and evidence of autonomic instability (irregular pulse or Jodou pressure, tardycarda, disphoresis, and cardiac dysrhythmia). Additional signs may include elevated creatine phosphorenase, myolphorinar (inabdomyops)s) and acute renal rathure. The diagnosis, it is important to exclude cases where the clinical presentation includes both serious medical aliness (e.g., preumonia, systemic infection, etc.) and untreated or inacequately treated extrapractical status and symptoms (2PS). Other important considerations in the differential disposis include cantial anticholinergic toxicity. In the contraction of drug the contraction of the contraction of the contraction of drug the contraction of the contraction of drug the contra

tose all the should be sought. The need for continued realment hould be reassessed periodically. It signs and symptoms of lardive systemics appear in a patient on SEROOUEL, found school the systems of the symbol of the symbol

have been associated with antipsychotic drug use. Aspiration pneumonia is a common have been associated with antispsychoid changue. Assistation poeumonals a common cases of morboding and morbidiny in deciding statistics, in particular those with should be used cautiously in patients at risk for aspiration prejuronia. Salideir. The possibility of a useful caution of the market quantity of tables consistent with possibility and consistent in schizophrena in which possibility and risk patients should be written for the market quantity of tables consistent with possibility and consortinated the programment of used to any appreciable extent in batterists with a recent history of myocardial effort used to any appreciable extent in batterists with a recent history of myocardial efforts of used to any appreciable extent in batterists with a recent history of myocardial efforts of the programment of the progr

Mursing Mothers: SEROULEL was excreted in milk of treated animals during lactation. It is not known it SEROULEL was excreted in human milk it is recommended that women receiving SEROULEL is excreted in human milk it is recommended that women receiving SEROULEL in pediatric patients have not been established. Berlatic Dase: Of the approximately 2400 galarists in clinical studies with SEROULEL, 8% (190) were 65 years of age or over. In general, there was no indication of any different loterability of SEROULEL in the either youngared to younger adults. Nevertheless, the presence of factors that might decrease pharmacokinetic clearance, increase the pharmacokymanic response to SEROULEL, or excluded the property of the property o younger patients.
ADVERSE REACTIONS

Adverse Events Decurring at an Incidence of 1% or More Among SEROQUEL
Trastled Patients in Short-form, Placebo-Controlled Trials: The most commonly
been ved adverse events associated with the use of SEROQUEL (incidence of 5% or
dizziness (10%), postural hypotension (7%), dry mouth (7%), and dyspepsia (6%),
the following treatment-emergent adverse experiences occurred at an incidence rate
of 1% or more, and were at least as frequent among SEROQUEL treated patients,
2-to 6-week psecho-controlled frais.
3- to 6-week psecho-controlled frais.
4- to 6-week psecho-