The International Journal of Neuropsychiatric Medicine

The Transition from Reproductive Age to Menopause: Implications for Mental Health

U. Halbreich and S. Korstein

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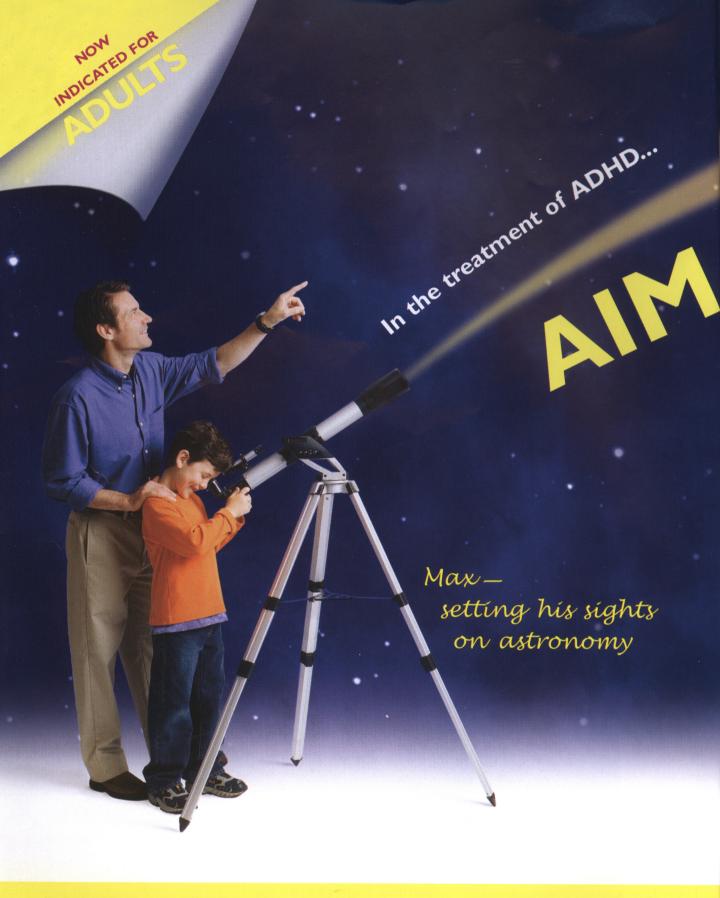
CLINICAL COLUMN

Pearls in Clinical Neuroscience Placebo: The Best Pill of All

D.J. Stein and H. Mayberg

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

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



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

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

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

www.ADDERALLXR.com www.ADHDSupportCompany.com

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your ADHD support company^a
1-800-828-2088

Shire

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October 2004 AXJA351



(Mixed Salts of a Single-Entity Amphetamine Product)
Dextroamphetamine Sulfate Dextroamphetamine Saccharate
Amphetamine Aspartate Monohydrate Amphetamine Sulfate

Reach new heights

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

References: 1. Ambrosini PJ, Lopez FA, Chandler MC, et al. Safety and efficacy of ADDERALL XR in pediatric ADHD: results of an open-label community assessment trial. Poster presented at: 14th Annual CHADD International Conference; October 17, 2002; Mismi Beach, Fla. 2. Spencer T. Biederman J., Wilens T. et al. Pharmacotherapy of attention-deficit hyperactivity disorder across the life cycle. J Am Acad Child Adders: Psychiatry, 1994;35-409-412. 3. Lopez FA, Ambrosnin PJ, Chandler MC, et al. ADDERALL XR in pediatric ADHD: quality of life measures from an open-label community assessment trial. Poster presented at: 14th Annual CHADD international Conference; October 17, 2002; Mismi Beach, Fla. 4. Lopez FA, Chandler MC, Biederman J, et al. Long-term Adderall XR treatment improves quality of life in ADHD children. Poster presented at: 156th Annual Meeting of the American Psychiatric Association; Mrg 21, 2003; San Francisco, Calif.

ONE DOSE DAILY

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

Dextroamphetamine Sulfate Dextroamphetamine Saccharate Amphetamine Aspartate Monohydrate Amphetamine Sulfate

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

ADDERALL XR® CAPSULES

Cil By Only

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

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 Advanced a territoristics. Symptominate Cardiovascular disease, inductate 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

WARNINGS

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

Long-lefth Suppression of Growth: Data are inadequate to determine whether chronic use of stimulants in children, including amphetamine, may be causally associated
with suppression of growth. Therefore, growth should be monitored during treatment,
and patients who are not growing or gaining weight as expected should have their treatment interrupted.
Sudden Death and Pre-existing Structural Cardiac Abnormalities: Sudden death has been reported in
association with amphetamine treatment at usual doses in children with structural cardiac abnormalities.
Adderall XP® generally should not be used in children or adults with structural cardiac abnormalities.

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

reliminate the possibility of overdosage.

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

Tics: Amphetamines have been reported to exacerbate motor and phonic tics and Tourette's syndrome. Therefore,

clinical evaluation for tics and Tourette's syndrome in children and their families should precede use of stimulant

unifications reaction to the control of the patient to engage in potentially hazardous activities. Information for Patients: Amphetamines may impair the ability of the patient to engage in potentially hazardous activities the called characteristic be cautioned accordingly.

taking ADDERALL XR®, especially patients with hypertension.

Ties: Amphetamiens have been reported to exacertate motor and phonic tics and Tourette's syndrome. Therefore, clinical evaluation for tics and Tourette's syndrome in children and their families should precede use of stimulant information as Pratilests. Amphetamiens may insight the ability of the patient to engage in potentially hazardous activities such as operating machinery or vehicles; the patient should interdore be cautioned accordingly.

Drug Interactions: Acidifying agents—Castrointestinal acidifying agents (journettidine; reseptine, glutamic acid HCl. ascorbic acid, etc.) lower absorption of amphetamines. Univary acidifying agents—These agents (ammonimos) and properties and acid acid properties. Acid properties (acid machinery) and properties and acid acid properties and acid acid properties. Acid properties acid acid properties acid acid properties acid acid properties. Acid properties acid acid properties acid acid properties acid acid properties. Acid properties acid acid properties acid acid properties acid acid properties. Acid properties acid properties acid properties acid properties. Acid properties acid properties acid properties acid properties. Acid properties acid properties acid properties acid properties acid properties. Acid properties acid properties acid properties acid properties. Acid properties acid properties acid properties acid properties. Acid properties and properties acid properties acid properties acid properties. Acid properties acid properties acid properties acid properties acid properties acid properties acid properties. Acid properties acid properties. Acid properties acid properties acid properties acid properties acid propertie

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 to 12) were evaluated in two controlled clinical studies, one open-label clinical study, and two single-dose clin-ical pharmacology studies (N=40). Salety 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,

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 inquiry and recorded by clinical investigators using terminology of their own choosing. Consequently, it is not possible to provide a meaningful estimate of the proportion 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

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 a patients with loss of appetite, one of whom also reported insomnia) compared to 2.7% (7/259) receiving placebo. The most frequent adverse events associated with discontinuation of ADDERALL XR® in controlled and uncontrolled, multiple-doss clinical trials of pediatric patients (N-595) are presented below. Over half of these patients were exposed to ADDERALL XR® for 12 months or more.

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

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

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

Table 1 Adverse Events Reported by More Than 1% of Pediatric Patients Receiving ADDERALL XR® with

Table 1 Adverse Events Reported by More Than 1% of Pediatric Patients Receiving ADDERALL XR® with

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	Loss of Appetite	22%	2%
System	Diarrhea	2%	1%
	Dyspepsia	2%	1%
	Nausea	5%	3%
	Vomiting	7%	4%
Nervous System	Dizziness	2%	0%
	Emotional Liability	9%	2%
	Insomnia	17%	2%
	Nervousness	6%	2%
Metabolic/Nutritional	Weight Loss	4%	0%

Table 2 Adverse Events Reported by 5% or More of Adults Receiving ADDERALL XR[®] with Higher Incidence Than on Placebo in a 255 Patient Clinical Forced Weekly-Dose Titration Study* Body System Preferred Term ADDERALL XR® (n=191) Placebo (n=64) General Asthenia 5% 13% 6% 26% Loss of Appetite Diarrhea Dry Mouth Nausea 33% 6% 35% 8% Digestive System 3% 0% 5% 3% 5% 5% 0% 13% Nervous System Agitation Insomnia Cardiovascular System Tachycardia 6% 3% Metabolic/Nutritional Weight Loss 11% 0% **Urogenital System** Urinary Tract Infection 5% 0%

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

*Included doses up to 60 mg.

*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, myocardial infarction. There have been isolated reports of cardiomyopathy associated with chronic amphetamine use. Central Nervous System: Psychotic episodes at recommended doses, overstimulation, restlessness, dizziness, insomnia, euphoria, dyskinesia, dysphoria, depression, tremor, headache, exacerbation of motor and phonic tics and Tourette's syndrome, seizures, stroke. Gastrointestinal: Dryness of the mouth, unpleasant taste, diarrhea, constipation, other gastrointestinal disturbances. Anorexia and weight loss may occur as undesirable effects. Allergic: Urticaria. Endocrine: Impotence, changes in libido.

DRUG ABUSE AND DEPENDENCE

BADERAL I YRB is a Schedule II controlled substance.

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

OVERDOSAGE

OVENDUSAGE
Individual patient response to amphetamines varies widely. Toxic symptoms may occur idiosyncratically at low doses. Symptoms: Manifestations of acute overdosage with amphetamines include restlessness, tremor, hyper-relexia, rapid respiration, confusion, assaultiveness, hallucinations, panic states, hyperpyrexia and habdomyol-ysis. 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 and coma.

vomiting, diarrhea, and abdominal cramps. Fatal poisoning is usually preceded by convulsions and coma.
Treatment: Consult with a Certified Poison Control Center for up to date guidance and advice. Management of acute
amphetamine intoxication is largely symptomatic and includes gastric lavage, administration of acute
amphetamine intoxication is largely symptomatic and includes gastric lavage, administration of acute
permit recommendation in this regard. Acidification of the urine increases amphetamine excretion, but is believed to
increase risk of acute renal failure if myoglobinuria is present. If acute severe hypertension complicates amphetamine overdosage, administration of intravenous phentolamine has been suggested. However, a gradual drop in blood
pressure will usually result when sufficient sedation has been achieved. Chlorpromazine antagonizes the central
stimulant effects of amphetamines and can be used to treat amphetamine intoxication.
The prolonged release of mixed amphetamine salts from ADDERALL XR® should be considered when treating
patients with overdose. Dispense in a tight, light-resistant container as defined in the USP. Store at 25° C (77° F).
Excursions permitted to 15-30° C (59-86° F) [see USP Controlled Room Temperature].

Manufactured for: Shire US Inc., Newport, KY 41071 Made in USA For more information call 1-800-828-2088, or
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The International Journal of Neuropsychiatric Medicine

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EDITORIAL MISSION

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



Break the cycle of unresolved depression with EFFEXOR XR1,2

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

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

The change they deserve.





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 adverse events representing suicidal thinking over 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.

(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.

CONTRAINDICATIONS: Hypersensitivity to venlaravine hydrochloride or to any excipients in the formulation. Concomitant use in patients taking monoamine oxidase inhibitors (MAOIs). WARNINGS: Clinical Worsening and Suicide Risk—Patients with major depressive disorder (MDI), both adult and pediatric, may experience worsening of their depression and/or the emergence of suicidal ideation and behavior (suicidality) or unusual changes in behavior, whether or not they are taking antidepressant medications, and this risk may persist until significant remission occurs. There has been a long-standing oncern that antidepressants may have a role in inducing worsening of depression and the emergence of suicidality in short-term studies in children and adolescents with MDD and other psychiatric disorders. It is unknown whether the suicidality risk in pediatric patients extends to longer-term use, i.e., beyond several months. It is also unknown whether the suicidality risk necessary and the suicidality of the suicidality and unusual changes in behavior, especially during the initial few months of a course of drug therapy, or at times of dose changes, either increases or decreases. Autus with MDD or comorbid depression in the setting of other psychiatric filness being retarded with antidepressants from processors and the psychiatric and nonpsychiatric. Although a causal link between the emergence of suicidality, aggressiveness, impulsivity, akathisia (psychomotor restlessness), hypomania, and mania have been reported in adult and nonpsychiatric. Although a causal link between the emergence of suicidality, Consideration should be given to changing the therapeutic regimen, including possibly discontinuing the medication, in patients whose depression is persistently worse, or who are experiencing e reduction of venlafaxine at various doses is associated with new symptoms, the frequency of which increased with increased dose level and longer duration of treatment. Symptoms include agitation, anorexia, anxiety reduction of veniarizarine at Various doses is associated with new symptoms, the frequency of which increased with increased dose level and longer duration of treatment. Symptoms include agitation, anorexia, anxiety, confusion, coordination impaired, diarrhea, dizziness, dry mouth, dysphoric mood, emotional lability, fasciculation, fatigue, headaches, hypomania, insomnia, intrability, letharry, nausea, nervousness, nightmares, selzures, sensory disturbances (e.g., paresthesias such as electric shock sensations), somnolence, sweating, timitus, tremor, vertigo, and vomiting. Monitor patients when discontinuing treatment. A gradual reduction the dose rather than abrupt cessation is recommended. It intolerable symptoms occur following a decrease in the dose or upon discontinuation of treatment, consider resuming the previously prescribed dose. Subsequently, continue decreasing the dose at a more gradual rate. *Insomnia and Nervousness*. Treatment-emergent insomnia and nervousness have been reported. In Phase 3 trials, insomnia led to drug discontinuation in 0.9% of depressed patients and in 3% of both Generalized Anxiety Disorder (SAD) patients. Nervousness led to drug discontinuation in 0.9% of depressed patients, in 2% of GAD patients. And in 0% of SAD patients. *Changes in Weight*. Adult Patients: In short-term MDD trials of the studies. The studies in 2-week studies. In 2-week SAD trials, 3% of Effexor XR patients had ≥5% loss of body weight and 0.1% discontinued for weight loss agents is not recommended. Effexor XR is not indicated for weight loss of both of weight loss. The safety and efficacy of veniataxine in combination with weight loss agents in not recommended. Effexor XR is not indicated for weight loss agents in not recommended. Effexor XR is not indicated for weight loss agents in not recommended. Effexor XR is not indicated for weight loss agents in not recommended. Effexor XR is not indicated for weight loss agents in our patients weight loss as ease in a patients than placebo patients weight loss vs. 3.5%; P<.U.OU1, Weight loss was not limited to patients with treatment-emergent anorexia (decrease in septial). Indiffer and adolescents in a 6-month study had increases in weight less than expected based on data from age- and sex-matched peers. The difference between observed and expected weight gain was larger for children <12 years old than for adolescents >12 years old. Changes in Height: Pediatric Patients: In 8-week GAD studies, Effexor XR patients aged 6-17 grew an average of 0.3 cm (n=142), while placebo patients grew an average of 0.0 cm (n=1432); P=0.041. This difference in height increases was most notable in patients <12. In 8-week MDD studies, Effexor XR patients grew an average of 0.8 cm (n=146), while placebo patients grew an average of 0.7 cm (n=147). In a 6-month study, children and adolescents had height increases less than expected based on data from age- and sex-matched peers. The difference between observed and expected growth rates was larger for children <12 years old than for adolescents >12 years old. Changes in Appetite. Adult Patients: Treatment-emergent anorexia was more commonly reported for Effexor XR (6%) than placebo (4%) patients in MDD studies. The discontinuation rate for anorexia was 1.0% in MDD studies. Treatment-emergent anorexia was more commonly reported for Effexor XR (8%) than placebo (2%) patients in GAD studies. The discontinuation rate for anorexia was 0.9% for up to 8 weeks in GAD studies. Freatment-emergent anorexia was more commonly reported for Effexor XR (20%) than placebo (2%) patients in SAD studies. The discontinuation rate for anorexia was 0.9% for up to 8 weeks in SAD studies. Pediatric Patients: Decreased appetite was seen in pediatric patients receiving Effexor XR in GAD and MDD trials, 10% of Effexor XR patients aged 6-17 for up to 8 weeks and 3% of placebo patients had treatment-emergent anorexia. None of the patients receiving Effexor XR discontinued for anorexia or weight loss. Activation of Mania/Hypomania: Mania or hypomania has occurred during

apridome of leapproprists articluratio hormone secretion (SADH) may occur with ventidative. Consider this monitor patients with rated infrancolar pressure or a risk of south service variety allocations, and an experimental properties of the promotering pressure or a risk of south service variety allocations, and an experimental properties of the promotering pressure to a risk of south service variety allocations, and an experimental properties with rated infrancolar pressure to a risk of south service variety and an experimental properties with rated infrancolar pressure to the pressure of the ventilation of the pressure of the pressure of the ventilations patients with rated infrancolar pressure to the pressure of the ventilations patients with recent hashes of the ventilations patients with recent hashes of the pressure of the ventilations or making the pressure of the ventilations of the pressure of the ventilation and is an experiment or combines of the lever, the observation of the ventilations and is a patient with recent patients with recent hashes of the properties of the pressure of the ventilation and is accordant to patient, and the pressure of the pressure of the ventilation and is accordant to patient, and the pressure of the pre syndrome of inappropriate antidiuretic hormone secretion (SIADH) may occur with venlafaxine. Consider this in patients who are volume-depleted, elderly, or taking diuretics. **Mydriasis**: Mydriasis has been reported; monitor patients with raised intraocular pressure or at risk of acute narrow-angle glaucoma (angle-closure

hypertonia, paresthesia, libido decreased, agitation, anxiety, twitching. Respiratory System: pharyngitis, yawn, sinusitis. Skin: sweating. Special Senses: abnormal vision. Urogenital System: abnormal ejaculation, impotence, orgasmic dysfunction (including anorgasmia) in females. Vital Sign Changes: Effexor XR was associated with a mean increase in pulse rate of about 2 beats/min in depression and GAD trials and a mean increase in pulse rate of beats/min in SAD trials. See WARNINGS-Sustained Hypertension). Laboratory Changes: Clinically relevant increases in serum cholesterol were noted in Effexor XR clinical trials. Increases were duration dependent over the study period and tended to be greater with higher doses. Other Events Observed During the Premarketing Evaluation of Effexor and Effexor XR—N=5079. "Frequent" events occurring in at least 1/100 patients; "infrequent"=1/100 to 1/1000 patients; "rare"=fewer than 1/100 patients. Body as a whole. Frequent: chest pain substernal, chills, fever, neck pain; Infrequent edodon, intentional injury, malaise, moniliasis, neck ingidity, 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, thrombophietish phock, capillary fragility, cerebral ischemia, coronary artery disease, congestive heart failure, heart arrest, cardiovascular disorder (mitral valve and circulatory disturbance), mucocutaneous hemorrhage, myocardial infract, pallor, <u>Digestive system</u> - Frequent: increased appetite; infrequent: bruxism, colitis, dysphagia, tonque hypotension, peripheral vascular disorder (mainly cold feet and/or cold hands), syncope, thrombophlebitis; Rare: aortic aneurysm, arteritis, first-derge atrioventricular block, capillary fragility, cerebral ischemia, coronary artery disease, congestive heart failure, heart arrest, cardiovascular disorder (mitral valve and circulatory distunance), mucocutaneous hemorrhage, myocardial infarct, pallor. Disestive system - Frequent: increased appetite; Infrequent: bruxism, colitis, dysphagia, tongue dema, esophagials, pastrikis, gastroenteritis, gastrointestinal ulucer, ginglivitis, glossitis, credal hemorrhage, hemorrhoids, melena, oral moniliasis, stomatitis, mouth ulceration; Rare: cheilitis, cholecystitis, choleithiasis, seponageal spasms, duodenlis, hematenesis, gastrointestinal hemorrhage, gum hemorrhage, hemorrhage passons, duodenlis, hematenesis, gastrointestinal hemorrhage, gum hemorrhage, hemorrhage passons, duodenlis, hematenesis, castrointestinal hemorrhage, morrhage, hemorrhage, hemorrhage passons, ducine interesis, descontantes in the properties of the properties of the properties. Hemorrhage passons, discolaration. Endocrine system - Rare; object hypotentivoidism, hypothyroidism, thyroidism, thyroidism, propriodism, proprio movements, LDH increased, neuroleptic malignant syndrome-like events (including a case of a 10-year-old who may have been taking methylphenidate, was treated and recovered), neutropenia, night sweats, pancreatitis, pancytopenia, panic, prolactin increased, pulmonary eosinophilia, renal failure, rhabdomyolysis, serotonin syndrome, shock-like electrical sensations or tinnitus (in some cases, subsequent to the discontinuation of venlatavine or tapering of dose), and SIADH (usually in the elderty). Elevated cloragine levels that were temporally associated with adverse events, including seizures, have been reported foliowing the addition of venlataxine. Increases in prottirombin time, partial thromboplastin time, or INR have been reported when venlataxine was given to patients on warfarin therapy. DRUG ABUSE AND DEPENDENCE: Effexor 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. OVERDOSAGE: Electrocardiogram changes (e.g., prolongation of OT 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 disaligns. General supportive and symptomatic 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. Due to the large volume of distribution of this drug, forced diuresis, dalysis, hemoperfusion, and exchange transfusion are unlikely to be of benefit. No specific antidotes for venlafaxine are known. In managing overdosage, consider the possibility of multiplie drug involvement. Consider chosonia, and exchange transfusion are unlikely to be of benefit. No specific antidotes for venlafaxine are known. In managing overdosage, consider the possibility of m

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BPA Worldwide Membership Applied for August 2004.

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Seroquel® quetiapine fumarate

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

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

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

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

Precautions include the risk of seizures, orthostatic hypotension, and cataract development.

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



AstraZeneca Pharmaceuticals LP

www.SEROQUEL.com

INDICATIONS AND USAGE: Binniar Mania: SEBOOLIEL is indicated for the treatment of acute manic INDICATIONS AND USAGE: Bipolar Mania: SEROULE is indicated for the treatment of acute mission episodes associated with bipolar it discorder, as either monotherapy or adjunct therapy to lithium or diviationes. The efficacy of SEROQUEL in acute bipolar mana was established in two 12-week monotherapy may and one-3-week adjunct therapy that of bipolar plantes intially hospitalism intially hospitalism intially hospitalism intially hospitalism or up to 7 days for acute mania. Effectiveness has not been systematically evaluated in clinical frials for more than 12 weeks in monotherapy and 3 wavels in adjunct therapy. Therefore, the physician benefits of the drug for the midridual paint. Seltopulles in evaluate the long-term risks and benefits of the drug for the midridual paint. Seltopulles inclinate Seltopulles in clinicate for the treatment of schizophrenia. The efficacy of SEROQUEL in schizophrenia was established in short-term (6-week) controlled trials of schizophrenia chipateniss. The efficiency soft schizophrenia chipateniss. The selfication soft schizophrenia chipateniss. The selfication soft schizophrenia chipateniss. The selfication of the physician who elects to use SEROQUEL for charded period schizophrenia chipateniss. The selfication of the physician who elects to use SEROQUEL for charded period schizophrenia chipateniss. Serophore is conscientified to the formation of the physician who elects to use SEROQUEL for centraling charded in indicativate why a second honoractivity to the middle process and the second process of the drug for the individual patient.

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

usefulness of the drug for the individual patient.

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

WARMINGS: Neurolegic Mailignant Syndrome (NMS): A potentially fatal symptom complex sometimes referred to as NMS has been reported in association with administration of antipsychotic drugs, including SEROUEL. Fare cases of NMS have been reported with SEROUEL Clinical manifestations of NMS are by purpryexes, muscle rigidity, aftered mental status, and evidence of autonomic instability. See full Prescribing Information for more information on the manifestations, diagnosis and management of NMS. If a patient equivers antipsychotic drug tratement after recovery from NMS, the potential reintroduction of drug therapy should be carefully considered. The patient should be carefully montroed sions ceruciness of IMMS have been reported. Tarfley Destinassiz: A syndrome of potentially interversible, involuntary, dyskinetic movements may develop in patients treated with artispsychotic retainment, which patients are tested by the patients of the patient should be carefully considered. The patient should be carefully expectedly elderly women, it is impossible to rely upon revalence estimates to predict, at the inception of antipsychotic treatment, which patients are tested by develop the syndrome. Whether artispsychotic drug products differ in their optential to cause lardive dyskiness as unknown. The resk of developms artispsychotic treatment in the syndrome and patients are tested by develop the syndrome. Whether artispsychotic drug stations and the letter of the patients of the patients of the patients are to a syndrome of the patients are to a syndrome and the patients of the patients. The patients are to a syndrome of the patients are to a syndrome and the patients of the patients are to a syndrome and the patients of the patients. The patients of the patients are not available or appropriate in syndrome and the report of the patient

PRECAUTIONS: General: Orthostatic Hypotension: SEROCUEL may induce orthostatic hypotension associated with dizziness, tachycardia and, in some patients, syncope, especially during the initional discentification period, probably reflecting its or, addirengia natiopoints properties. Syncope was reported in 15% (202567) or the patients treated with SEROCUEL compared with 0% (0607) on placed adout 0.4% (20257) on active corried drugs. SEROCUEL should be used with particular caration in patients with insown cardiovascular dissess (history of mycardial infarction or schemic heard in patients with insown cardiovascular dissess (history of mycardial infarction or schemic heard in patients with insown cardiovascular dissess or conditions which would predispose patients to hypotension (leavy-droiton, hypovolenia and treatment with antihypertensive medications). The risk of orthostatic hypotension ad syncope may be minimized by limiting the initial does to 25 mg bit. If hypotension occurs during literation to the target does, a return to the previous sent the treatment with antihypertensive in association with gradients schedule is appropriate. Cataraction: The development of cataractic was observed in association with gradients carried in the control of th PRECAUTIONS: General: Orthostatic Hypotension: SEROQUEL may induce orthostatic hypo or with conditions that potentially lower the sezure threshold, e.g., Alzheimer's Gementa. Conditions that lower the sezure threshold may be more prevalent in a population of 55 years or cider. Hypothyroidism: Clinical trials with SERQUIEL demonstrated a dose-related decrease in total and ree thyroiner (14) of approximately 20% at the higher end of the therapoutic dose range and was maximal in the first two to four weeks of treatment and maintained without adaptation or progression during more chronic therapy. In enary all cases, essension of SERQUIEL treatment was associated with a reversal of the effects on total and fire 14, irrespective of the duration of treatment. About 0.4% (12791) of SERQUIEL patients associated with a reversal of the effects on total and fire 14, irrespective of the duration of treatment. About 0.4% (12791) of SERQUIEL treatments associated with a reversal of the effects on total and fire 14, irrespective of the duration of treatment. About 0.4% (12791) of SERQUIEL treatments with the patients with 154 in creases needed replacement thryfold treatment. In the main adjunct studies, where SERQUIEL was added to influence of the service of the service

Accretion presumes as a common case of morbidity and mortality in elserly catents, in particular those with advanced Albement's dementa. SEROULEL and other antipopychoric drugs should be calculated in accordance by in patient as in the capacitate of presuments. Selectic in passibility of assisted attempts accordingly in the patient of the patients of the patients of the patients with Controllant Illness: Cilincial experience with SEROULEL in patients with cartain concombant in order to relate the risk of overonce. He is Patients with Controllant Illness: Cilincial experience with SEROULEL in patients with cartain concombant system clinesses a miletid SEROULEL from the order to make the risk of overonce. He is Patients with Controllant Illness: Cilincial experience with SEROULEL in patients with cartain concombant properties of the patients of the patients of the patients with a recent history of impocational inflancation or unable heart allowers. Patients with repatients with a recent history of impocational inflancation or unable heart allowers. Patients with properties with SEROULEL cartain should be observed in state to select the properties of the patients of the patients. Physicians are advanced to consult the full Prescribing in the patients of the pat dose, slower titration, and careful monitoring during the initial dosing period in the elderly. The mean plasma clearance of SEROQUEL was reduced by 30% to 50% in elderly patients when compared to vounger patients.

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

ADVERSE REACTIONS: The information below is derived from a clinical trial database for SEROQUEL consisting of vor 900p patients. Of these approximately 9000 subjects, approximately 2700 (2300 in schizophrenia and 405 in acute bipolar mania) were patients who participated in multiple dose effectiveness trials, and their experience corresponded to approximately 913 apitent-years. Relefer to the full Prescribing Information for details of adverse event data collection. Adverse Findings Observed in Short-Term, Controlled Trials: Adverse Events Associated with Discontinuations due to adverse events were 2.7 % for SEROQUEL vs. 5.1% for placebo in monotherapy and 3.6% for SEROQUEL vs. 5.9% for placebo in monotherapy and 3.6% for SEROQUEL vs. 5.9% for placebo in adult on the reduced of discontinuation due to adverse events (4% for SEROQUEL vs. 5.9% for placebo and Hypotension were considered to be four greized (see PRECAUTIONS). Sommotinec 80 see vol. 6% for placebo and Hypotension of 4% vs. 6% for placebo and Hypotensio

SEROQUEL® (quetiapine furnarate) Tablets
Respiratory: Pharyngitis, Rhinitis, Stån and Appendages: Rash: Special Senses: Amblyopia, in these
studies. The most commonly observed adverse events associated with the use of SEROQUEL
(incidence of 5% or grazely) and observed at a rate on SEROQUEL at least twice that of placebo were
somnoincer (18%), dizziness (11%), dury month (19%), constipation (19%), SEPT increased (5%), a weight gain (5%), a problem (19%), constipation (19%), SEPT increased (5%), weight gain (5%), and dyspepsia (5%), Table 2 enumerates the incidence of treatment-emergent
adverse events that occurred during therapy (up to 3 weeks) of acute mannia in 5% or more of patients
treated with SEROQUEL (doses ranging from 100 to 800 mig/day) used as adjunct therapy to Inthium
and divalprove where the incidence in patients treated with SEROQUEL was greater than the incidence
in placebor rated patients. Events for which the SEROQUEL incidence was equal to or less than
placebo are not listed, but included the following accidental injury, adathisia, chest pain, cough
increased, depression, diarrhea, extrapyramidal syndrome, hostifity, hyperinasion, hyperional,
phypolension, increased appetite, infection, insomnus, eukopenia, amalise, nausea, nervousness,
paresthesia, pempheral edema, sweating, tremor, and weight loss. Treatment-Emergent Adverse
Experience piculdence in 3-3-web Fazebo-Cortrolled Clinital Trials for the Treatment of Biplair
Mania (Adjunct Therapy): Body as a Whole: Headache, Asthenia, Addominal Pain, Back Pain,
Pharyngilis, Inthese studies, the most commonly observed at varse events associated with the use
of SEROQUEL (incidence was equal to or less than placebo are not istent in the table, but included the
following: akathisia, diarrhea, insomnia, and nausea, Dose Dependency of Adverse Events in Shortferm, Placebo-Controlled If Trials; Dose-related Adverses Events in Shortferm, Placebo-Controlled If Trials; Dose-related Adverses Events in Shortferm, Placebo-Controlled If Trials; Dose-relat Phaympils. In these studies, the most commonly observed adverse events associated with the use of SPROUEL (incidence of \$4% or greater) and observed at arts on SROUEL at least twice that of placebo were somnotence (34%), dry mount (19%), astheria (10%), constipation (10%), abortion and pan (7%), postural hypotension (7%), phaympils (5%), and weight gain (6%). Events for which the SEROUUEL incidence was equal to or less than placebo are not issed in the table, but included the observation of the placebo-Cantrollec. Trials: Deservated Adversa Events: Logistic repression analyses revealed a positive does response (pc.015) for the following adverse events: Soypespa, addominal para, and weight gain. Estrapyrantidal Symptoms: Data from one brevel crinical trial of schooling and comparing the first does of schooling. Soypespa, addominal para, and weight gain. Estrapyrantidal Symptoms: Data from one brevel crinical trial of schooling and comparing the first does of schooling of the school from the local control of SCHOULL. In the methods were used to measure EPS. (1) Sympson-Angus and comparing the first does of schooling of sportaneous complaints of EPS (alcathibia, admenta, copylete inputty, entrapyrantidal symptoms (EPS), and the schooling of sportaneous complaints of EPS (alcathibia, admenta, copylete inputty, entrapyrantida symboms, propheria) using variable doses of SEROULEL treatment in the incidence of EPS, as associated with SEROULEL and placebo treatment groups in the incidence of EPS, as a sessed by Simpson-Angus total scores, sport-prienal justing variable doses of SEROULEL and placebo treatment groups in the incidence of EPS, of a done, and a service of the placebo controlled clinical trials trials from the proportions of patients meeting a weight gain criterion of 27% of body weight were compared in a pool of four 3-to 6-week tryotension (see PERCAUTHORS). See Thought and the same veryful patients meeting a weight gain criterion of 27% of body weight were compared in a pool of four 3-to 6-week placebo-con

DRUG ABUSE AND DEPENDENCE: Controlled Substance Class: SEROQUEL is not a controlled subunus naubes anu ucerunture: commold substance Class: SEROQUEL is not a controlled substance. Physical and Psychologic dependence: SEROQUEL has not been systematically studied, in animals or humans, for its potential for abuse, tolerance or physical dependence. While the clinical did not reveal any tendency for any drup-sekking behavior: these observations were not systematic and it is not possible to predict on the basis of this limited experience the extent to which a DNS-active drug with lemisused, diverted, and/or abused one marketed. Onsequently, patients should be evaluated carefully for a highery of orig abuse, and such patients should be observed closely for signs of misuse or abuse of SEROQUEL, e.g., development of tolerance, increases in dose, drug-seeking behavior.

Seeung behavior.

**OVERDOSAGE: Human experience: Experience with SEROQUEL (queltapine fumarate) in acute overdosage was limited in the clinical trial database (6 reports) with estimated doses ranging from 1200 mg to 9600 mg and no latalities. In general, reported signs and symptoms were those resulting from an exaggeration of the drug's known pharmacological effects, i.e., drowsness and sedation, tachycardia and hypotension. One case, involving an estimated overdose of 9600 mg, was associated with hypotelamia and first degree heart block. In post-marketing experience, there have been very rere reports of overdose of SeNOULE alone resulting in death, coma or UTc prologation. Management of Overdosege: in case of acute overdosage, establish and maintain an airway and ensure adequated overgreating in death, or come or UTc prologation and administration of activated charcoal tagether with a laxative should be considered. The possibility of orbundation, sexure or dystonic reaction of the head and neck following overdose may create a risk of aspiration with induced emesis. Cardiovascular monitoring to detect possible armythmas, if antiamythmic therapy is administered, disopyramide, procaramined and quantities of a spiration with induced emesis. Cardiovascular monitoring to detect possible armythmas, if antiamythmic therapy is administered, disopyramide, procaramined and quantities armythmas, if antiamythmic therapy is administered, disopyramide, procaramined and quantities armythmas, if antiamythmic therapy is administered, disopyramide, procaramined and quantities armythmas, if antiamythmic therapy is a secondate to exceed that the alpha-adrenarge-thocking carry a theories alto provide supportation and the provides and circulation collages should be treated with appropriate anasytes such as intravenous fluids and/or sympathonimeta agents (genephrine and oppanine should not be used, since peta stimulation may worsen hypotension in the setting of quelapiner induced alone blockade) in cases of severe extraoryamidal sym OVERDOSAGE: Human experience: Experience with SEROQUEL (quetiapine fumarate) in acute

SEROQUEL is a trademark of the AstraZeneca group of compa © AstraZeneca 2004 Rev 07/04 Manufactured for: AstraZeneca Pharmaceuticals LP Wilmington, Delaware 19850-5437